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IDAHO PUBLIC
UTILITIES COMMISSION

VIA OVERNIGHT DELIVERY

Jean D. Jewell
Commission Secretary
Idaho Public Utilities Commission
472 W. Washington
Boise, ID 83702-5983

Re: Annual 2012 Idaho Demand Side Management Report

Attn: Jean D. Jewell
Commission Secretary

PacifiCorp (d.b.a. Rocky Mountain Power) hereby submits for filing an original and seven (7) copies of its 2012 Annual Demand Side Management Report, pursuant to Order No. 29976 from Case No. PAC-E-05-10.

Rocky Mountain Power respectfully requests that all formal correspondence and requests regarding this filing be addressed to one of the following:

By E-mail (preferred): datarequest@pacificorp.com

By regulator mail: Data Request Response Center
PacifiCorp
825 NE Multnomah Blvd., Suite 2000
Portland, OR 97232

For any informal questions, please contact Ted Weston, Manager, Idaho Regulatory Affairs, at (801) 220-2963.

Sincerely,

Jeffrey K. Larsen
Vice President, Regulation & Government Affairs



Idaho Energy Efficiency and Peak Reduction Annual Report

January 1, 2012 – December 31, 2012

Issued April 30, 2013

 **ROCKY MOUNTAIN
POWER**
Let's turn the answers on.



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TABLE OF CONTENTS

List of Abbreviations and Acronyms.....	5
Executive Summary	6
2012 Performance	8
Regulatory History.....	9
Schedule 191, Customer Efficiency Services Rate Balancing Account Summary.....	10
Planning Process	12
Integrated Resource Plan.....	12
Energy Efficiency Programs	14
Residential Programs	14
Home Energy Saver Program.....	14
Program Management.....	15
Program Administration	15
Infrastructure	16
Evaluation.....	20
Refrigerator Recycling	20
Program Management.....	21
Program Administration	21
Infrastructure	22
Evaluation.....	22
Low Income Weatherization	22
Program Management.....	23
Program Administration	23
Evaluation.....	24
Low Income Energy Conservation Education	24
Commercial and Industrial Programs	25
FinAnswer Express	25
Program Management.....	26
Program Administration	26
Infrastructure	27
Evaluation.....	28
Agricultural Energy Services	28
Program Management.....	29

Program Administration	29
Infrastructure	30
Evaluation	30
Energy FinAnswer.....	30
Program Management.....	31
Infrastructure	32
Evaluation.....	32
Communications, Outreach and Education.....	33
Earned Media	33
Customer Communications.....	33
Program Specific	33
Home Energy Saver program	34
Residential Refrigerator Recycling	34
FinAnswer Express and Energy FinAnswer.....	35
Agricultural Energy Services.....	35
Evaluations.....	36

LIST OF ABBREVIATIONS AND ACRONYMS

CFLs	Compact Fluorescent Lights
CAPAI	Community Action Partnership Association of Idaho
DSM	Demand-Side Management
EICAP	Eastern Idaho Community Action Plan
EM&V	Evaluation, Measurement & Verification
HVAC	Heating, ventilation and air conditioning
IECC	International Energy Conservation Code
IDHW	Idaho Department of Health and Welfare
IRP	Integrated Resource Plan
kWh	Kilowatt hour
LEDs	Light-emitting diodes
MW	Megawatt
NAPEE	National Action Plan for Energy Efficiency
NTG	Net-to-Gross
PCT	Participant Cost Test
PTRC	Total Resource Cost Test with 10 percent adder
RIM	Ratepayer Impact Measure Test
Schedule 191	Customer Efficiency Services Rate Adjustment
SEICAA	SouthEastern Idaho Community Action Agency
SYLR	See ya later, refrigerator®
TRC	Total Resource Cost Test
UCT	Utility Cost Test

EXECUTIVE SUMMARY

Rocky Mountain Power (“Company”) working in partnership with its retail customers and with the approval of the Idaho Public Utilities Commission (“Commission”), acquires energy efficiency and peak reduction resources as cost-effective alternatives to the acquisition of supply-side resources. These resources assist the Company in efficiently addressing load growth and contribute to the Company’s ability to meet system peak requirements. Company energy efficiency and peak reduction programs provide participating Idaho customers with tools that enable them to reduce or assist in the management of their energy usage while reducing the overall costs to Rocky Mountain Power’s customers. These resources are relied upon in resource planning as a least cost alternative to supply-side resources.

This report provides details on program results, activities, expenditures, and Customer Efficiency Service Charge - Schedule 191 (“Schedule 191”) - revenue for the performance period from January 1, 2012, through December 31, 2012. The Company, on behalf of its customers invested \$3.4 million in energy efficiency resource acquisitions during the reporting period. The investment yielded approximately 12.6 gigawatt-hours in first year savings¹ and approximately 2.7 megawatts of capacity reduction from energy efficiency². Net benefits to customers based on the projected value of the energy efficiency program savings over the life of the individual measures are estimated at \$2.4 million³. The cost effectiveness of the portfolio including Low Income Education savings from various perspectives is provided in Table 1.

Table 1 – Long-term Cost Effectiveness for the Energy Efficiency Portfolio

	Benefit/Cost Ratio	Net Benefits
Total Resource Cost Test plus 10 percent (“PTRC”) – total resource cost with the addition of environmental and non-energy benefits ⁴	1.36	\$1,734,253
Total Resource Cost Test (“TRC”) – effects on both participants and non-participants ⁵	1.23	\$1,068,858
Utility Cost Test (“UCT”) – effect on customers ⁶	1.71	\$2,413,135
Participant Cost Test (“PCT”) – effect on participants ⁷	2.43	\$4,244,173
Ratepayer Impact (“RIM”) – effect on the cost per kilowatt-hour of sales ⁸	0.72	(\$2,239,12)

¹ Reported savings at generation.

² See Appendix 1 for explanation on how the capacity contribution savings values are calculated.

³ See Table 1 – Utility Cost Test Net Benefits.

⁴ The TRC plus 10 percent includes a benefit adder to account for non-quantified environmental and non-energy benefits of conservation resources over supply side alternatives.

⁵ The TRC compares the total cost of a supply side resource to the total cost of energy efficiency resources, including costs paid by the customer in excess of the program incentives. The test is used to determine if an energy efficiency program is cost effective from a total cost perspective.

⁶ The UCT compares the total cost incurred by the utility to the benefits associated with displacing or deferring supply side resources.

⁷ The PCT compares the portion of the resource paid directly by participants to the savings realized by the participants.

⁸ The RIM examines the impact of energy efficiency on utility rates. Unlike supply-side investments, energy efficiency programs reduce energy sales. Reduced energy sales lowers revenues (see UCT) putting upward pressure on rates as the remaining fixed costs are spread over fewer kilowatt-hours.

The portfolio was cost effective based on four of five standard cost effectiveness tests for the reporting period. The ratepayer impact measure test was less than 1.0 indicating near-term upward pressure was placed on the price per kilowatt-hour given a reduction in sales. Annual performance information for 2012 cost effectiveness is provided in detail in Appendix 2.

In 2012, the Company began development of a Technical Reference Library which contains preliminary measure-level savings data, including the methods, assumptions and sources for those assumptions used for reporting of energy savings. A preliminary Energy Efficiency Measures report is provided in Appendix 3.

During the reporting period, the Company through its third party administrators⁹ worked with the following number of retailers, contractors, and vendors to support the energy efficiency programs in Idaho:

Table 2 - Energy Efficiency Infrastructure

Sector	Type	No.
Residential	Lighting Retailers	24
	Appliances Retailers	42
	HVAC ¹⁰ Contractors	11
	Insulation Contractors	7
	Window Contractors	5
	Low Income Agencies	2
Commercial and Industrial	Lighting Trade Allies	44
	HVAC Trade Allies	34
	Motors Trade Allies	34
	Engineering Firms	24

Performance of the Idaho Irrigation Load Control programs is contained in Appendix 8.

⁹ See program specific sections for backgrounds on third party administrators.

¹⁰ Heating, ventilation and air conditioning

2012 Performance

Program and Sector level results for 2012 are provided in Table 3 below.

Table 3
Idaho Program Results for January 1, 2012 – December 31, 2012¹¹

Program	kWh/Yr Savings (at site)	kWh/Yr Savings (at generator)	Program Expenditures
Low Income Weatherization (21)	230,238	256,637	\$ 284,549
Low Income Education Program (21)	20,536	22,891	
Refrigerator Recycling (117)	806,105	898,533	\$ 102,878
Home Energy Saver (118)	2,616,739	2,916,774	\$ 652,248
Total Residential	3,673,618	4,094,835	\$ 1,039,675
Energy FinAnswer (125)	0	0	\$ 21,275
FinAnswer Express (115)	2,205,353	2,442,406	\$ 532,711
Total Commercial	2,205,353	2,442,406	\$ 553,986
Energy FinAnswer (125)	318,915	342,904	\$ 138,323
FinAnswer Express (115)	2,170,785	2,334,071	\$ 216,347
Total Industrial	2,489,700	2,676,975	\$ 354,671
FinAnswer Express (115)	96,974	108,076	\$ 11,943
Agricultural Energy Services (155)	2,954,136	3,292,325	\$ 652,299
Total Agricultural	3,051,110	3,400,401	\$ 664,241
Total Energy Efficiency	11,419,781	12,614,617	\$ 2,612,573
	C & I Evaluation Costs	\$ 696,359	
	Residential Evaluation Costs	\$ 100,261	
	Technical Reference Library	\$ 6,477	
	New Programs	\$ 82	
	Total System Benefit Expenditures - All Programs	\$ 3,415,751	

¹¹ The values at generation include line losses between the customer site and the generation source. The company's line losses by sector for 2012 are 11.47 percent for residential, 10.75 percent for commercial, 7.52 percent for industrial and 11.45 percent for irrigation.

REGULATORY HISTORY

During the reporting period the Company filed a number of compliance and/or informational reports, updates and requests with the Commission in support of the Company programs. The following is a list of those filings:

- February 22, 2012, the Company submitted its annual Demand-Side Management (“DSM”) Balancing Account Review for 2011 to the Commission, pursuant to PAC-E-05-10.
- On April 30, the Company submitted its 2011 Idaho Energy Efficiency and Peak Reduction Annual Report. This report was revised on June 19, 2012 to address minor corrections with participation count and appendix updates and again on August 3, 2012 to address corrections on reported savings from a third party program administrator.
- May 15, 2012, the Company filed an application¹² with the Commission requesting an order approving proposed revisions to FinAnswer Express – Schedule 115, and requesting a change enabling the Company to manage the program outside the tariff and make program changes through a flexible tariff. Changes were effective July 14, 2012.
- June 19, 2012, the Company proposed modifications to the Home Energy Saver Incentive Program – Schedule 118 through the flexible tariff approach approved by the Commission and summarized in the tariff Provision of Service No. 5. Changes took effect August 20, 2012.
- On December 7, 2012, the Company requested authority to cancel schedules 72 and 72A, and sought approval for a new Irrigation Load Control contract¹³.

On February 15, 2012 the Commission directed Commission Staff (“Staff”) to convene a public workshop to explore in greater detail issues related to the funding and evaluation of utility Low Income Weatherization and Energy Conservation Education programs. The Company participated in this workshop on March 19, 2012. On October 23, 2012 Staff prepared and submitted a report of its findings and recommendations. The Company provided comments on Staff’s recommendations pursuant to the Commission’s November 12, 2012 issue of a Notice of Modified Procedures that set deadlines for interested parties to comment on.¹⁴

¹² Case PAC-E-12-10.

¹³ Changes took effect on March 8, 2013 and will be reported on in the 2013 Idaho Energy Efficiency and Peak Reduction Annual Report. Case PAC-E-12-14.

¹⁴ The Commission issued Order No. 32788 for Case No. GNR-E-12-01 on April 12, 2013. Recommendations that would impact the cost effectiveness of Low Income Weatherization program were applied in this annual report.

Schedule 191, Customer Efficiency Services Rate Balancing Account Summary

In Case Number PAC-E-05-10 (Order 29976) the Commission approved the recovery of all DSM program costs through Schedule 191, with exception of the expenses associated with the irrigation load control program¹⁵. Schedule 191 charges appear as a line item on customer bills. The Company books eligible DSM program costs as incurred to the balancing account.

On May 30, 2012, the Company filed an application with Case No. PAC-E-12-11 to decrease the Schedule 191, Customer Efficiency Services Rate, from 3.4 percent to 2.1 percent. The Commission approved the Company's request with an effective date of August 1, 2012.

Schedule 191 balancing account activity for 2012 is outlined in the Table 4 below.

Month	2012	2011
January	\$ -0.00	\$ -0.00
February	\$ -0.00	\$ -0.00
March	\$ -0.00	\$ -0.00
April	\$ -0.00	\$ -0.00
May	\$ -0.00	\$ -0.00
June	\$ -0.00	\$ -0.00
July	\$ -0.00	\$ -0.00
August	\$ -0.00	\$ -0.00
September	\$ -0.00	\$ -0.00
October	\$ -0.00	\$ -0.00
November	\$ -0.00	\$ -0.00
December	\$ -0.00	\$ -0.00
Total	\$ -0.00	\$ -0.00

¹⁵ The Commission, in Case No. PAC-E-10-07, ordered that the costs associated with the Idaho Irrigation Load Control Program should be allocated as system costs and not situs to Idaho.

Table 4
Schedule 191 Balancing Account Activity

State of Idaho Summary - Balancing Account		Balance as of 12/31/11					\$	1,183,202	1,564,182
		Monthly Program					Cash Basis	Accrual Basis	
		Cost - Fixed	Assets	Accrued Costs	Rate Recovery		Accumulated Balance	Accumulated Balance	
January	\$	105,441	\$ 92,972	\$ (392,090)	\$ 867	\$ 897,419	\$ 1,371,372		
February	\$	221,185	\$ (60,023)	\$ (355,173)	\$ 692	\$ 764,123	\$ 1,178,053		
March	\$	238,010	\$ 19,830	\$ (336,515)	\$ 596	\$ 666,214	\$ 1,099,973		
April	\$	203,097	\$ 27,735	\$ (306,199)	\$ 512	\$ 563,623	\$ 1,025,117		
May	\$	366,808	\$ (18,312)	\$ (452,268)	\$ 434	\$ 478,598	\$ 921,780		
June	\$	277,173	\$ 29,048	\$ (708,661)	\$ 219	\$ 47,329	\$ 519,559		
July	\$	306,787	\$ 116,762	\$ (904,683)	\$ (210)	\$ (550,778)	\$ 38,215		
August	\$	339,574	\$ (2,402)	\$ (687,181)	\$ (604)	\$ (898,989)	\$ (312,399)		
September	\$	463,651	\$ (143,689)	\$ (406,554)	\$ (725)	\$ (842,617)	\$ (399,716)		
October	\$	259,877	\$ (90,788)	\$ (257,381)	\$ (701)	\$ (840,822)	\$ (488,709)		
November	\$	382,426	\$ (8,024)	\$ (216,413)	\$ (632)	\$ (675,441)	\$ (331,352)		
December	\$	207,729	\$ (24,675)	\$ (221,886)	\$ (569)	\$ (690,167)	\$ (370,753)		
2012 totals	\$	3,371,757	\$ (61,566)	\$ (5,245,005)	\$ (121)				

Column Explanations:

Monthly Program Costs – Fixed Assets: Monthly expenditures for all energy efficiency program activities.

Accrued Costs: Program costs incurred during the period not yet posted.

Rate Recovery: Revenue collected through Schedule 191.

Carrying Charge: Monthly “interest” charge based on “Accumulated Balance” of the account. The current “interest rate” for the Accumulated Balance is 1 percent per year.

Cash Basis Accumulated Balance: Current balance of the account - a running total of account activities. A negative accumulative balance means cumulative revenue exceeds cumulative expenditures; positive accumulative balance means cumulative expenditures exceed cumulative revenue.

Accrual Basis Accumulative Balance: Current balance of account including accrued costs.

At the beginning of 2012, the underfunded balance was approximately \$1.564 million and decreased by approximately \$1.935 million during the year to show an ending balance of \$371 thousand overfunded which includes the accrued cost.

PLANNING PROCESS

Integrated Resource Plan

The Company develops a biennial integrated resource plan (“IRP”) as a means of balancing cost, risk, uncertainty, supply reliability/deliverability and long-run public policy goals. The plan presents a framework of future actions to ensure the Company continues to provide reliable, reasonable-cost service with manageable risks to its customers. Energy efficiency and peak management opportunities are incorporated into the plan based on their availability, characteristics and costs.

Energy efficiency and peak management resources can be divided into four general classes based on their relative characteristics, the classes are:

- Class 1 DSM (Resources from fully dispatchable or scheduled firm capacity product offerings/programs) – Capacity savings occur as a result of active Company control or advanced scheduling. Once customers agree to participate, the timing and persistence of the load reduction is involuntary on their part within the agreed limits and parameters.
- Class 2 DSM (Resources from non-dispatchable, firm energy and capacity product offerings/programs) – Sustainable energy and related capacity savings are achieved through facilitation of technological advancements in equipment, appliances, lighting and structures or sustainable verifiable changes in operating and maintenance practices, also commonly referred to as energy efficiency resources.
- Class 3 DSM (Resources from price responsive energy and capacity product offerings/programs) – Short-duration energy and capacity savings from actions taken by customers voluntarily based on pricing incentives or signal.
- Class 4 DSM (Resources from energy efficiency education and non-incentive based voluntary curtailment programs/communications pleas) – Energy and/or capacity reduction typically achieved from voluntary actions taken by customers, to reduce costs or benefit the environment through education, communication and/or public pleas.

As technical support for the IRP, a third-party analysis is conducted to estimate the magnitude, timing and cost of alternative energy efficiency and peak management options.¹⁶ The main focus of the study has been on resources with sufficient reliability characteristics that are anticipated to be technically feasible and assumed achievable during the IRP’s 20-year planning horizon. The estimated achievable energy efficiency potential identified in the 2011 study for Idaho was 63 average megawatts or 18 percent of retail sales.¹⁷ By definition this was the energy efficiency potential that may be achievable to acquire during the 20-year planning horizon if determined least cost and cost-effective compared to supply-side alternatives within the Company’s integrated resource planning process.

¹⁶www.pacificorp.com/content/dam/pacificorp/doc/Energy_Sources/Demand_Side_Management/DSM_VolumeI_2011_Study.pdf. Table 52 on page 49.

¹⁷Ibid.

The achievable technical potential for Idaho by sector is shown in Table 5. The 2011 potential study indicates that 5 percent of the achievable technical potential for the Company, excluding Oregon¹⁸, is in Idaho.¹⁹

Table 5
2011 Idaho Energy Efficiency Achievable Technical Potential by Sector

Sector	Average Megawatts in 2030	Percent of Retail Sales
Residential	36	25%
Commercial	13	14%
Industrial	6	13%
Irrigation	7	10%

* Note there is an additional 0.1 aMW associated with street lights

Energy efficiency resources vary in their reliability, load reduction and persistence over time. Based on the significant number of measures identified in the potential study it is difficult to incorporate each measure as a stand-a-alone resource in the IRP. To address this issue, energy efficiency measures are bundled by their weighted-average load shape, lives and costs to reduce the number of combinations to a more manageable number.

The evaluation of energy efficiency resources within the IRP is also informed by state specific evaluation criteria. While all states generally use commonly accepted cost effectiveness tests, some states require variations in calculating or prioritizing the tests.

- Washington and Oregon utilize the total resource cost but allow for consideration of non-energy benefits and a 10 percent regional conservation credit in the determination of cost effectiveness.
- Utah utilizes the utility cost test as the primary determination of cost effectiveness.

The Company evaluates program implementation cost effectiveness (both prospectively and retrospectively) under a variation of five tests to identify the relative impact and/or value to customers and the Company (i.e. near-term rate impact, program value to participants, etc.).

Both the 2008 and 2011 Integrated Resource Plan preferred portfolios included the acquisition of energy efficiency resources. The action plan targets for the 2008 and 2011 Integrated Resource Plan updates²⁰ are shown in Table 6.

Table 6
Preferred Portfolio Energy Efficiency Targets

2008 Preferred Portfolio	Acquire 468 – 525 average megawatt hours of energy efficiency by 2018
2011 Preferred Portfolio	Acquire a minimum of 517 average megawatt hours of energy efficiency by 2020

¹⁸ Demand-side Management potential studies are performed by the Energy Trust of Oregon.

¹⁹ Page 49, Table 52 of the Assessment of Long-term, System-Wide Potential for Demand-Side and Other Supplemental Resources.

²⁰ 2008 IRP update, March, 2010, and 2011 IRP LC 52 Revised IRP Action Plan, January, 2012.

ENERGY EFFICIENCY PROGRAMS

Energy efficiency programs are offered to all major customer sectors: residential, commercial, industrial and agricultural. The overall energy efficiency portfolio includes six programs: *Home Energy Savings* – Schedule 111, *Residential Refrigerator Recycling* – Schedule 117, *Low Income Weatherization* – Schedule 118, *Energy FinAnswer* – Schedule 125, *Agricultural Energy Services* – Schedule 155 and *FinAnswer Express* – Schedule 115. Results for 2012 were provided in Table 3.

RESIDENTIAL PROGRAMS

The residential energy efficiency portfolio is comprised of three programs, *Home Energy Saver*, *Residential Refrigerator Recycling* and *Low Income Weatherization*. As shown in Table 10, the residential portfolio was cost effective based on four of the five standard cost effectiveness tests for the 2012 reporting period. The ratepayer impact test was less than 1.0 indicating that there is near term upward pressure placed on the price per kilowatt-hour given a reduction in sales.

Table 10
Long-term Cost Effectiveness for Residential Portfolio

	Benefit/Cost Ratio	Net Benefits
Total Resource Test plus 10 percent	1.60	\$796,276
Total Resource Cost Test	1.39	\$527,276
Utility Cost Test	1.63	\$725,002
Participant Cost Test	4.36	\$2,081,289
Rate Payer Impact	0.65	(\$1,004,300)

Home Energy Saver Program

The *Home Energy Saver* program is designed to provide access to and incentives for more efficient products and services installed or received by customers in new or existing homes, multi-family housing units or manufactured homes. Program participation by measure is provided in Table 11.

Table 11
Eligible Program Measures (Units)

Measures	2012 Total Units
Central Air Conditioner Best Practice Installation	1
Central Air Conditioner Equipment	2
Central Air Conditioner Proper Sizing	1
Central Air Conditioner Tune-up	1
Gas Furnace with Electronically Commutated Motor	1
Electric System to Heat Pump Conversion	3

Measures	2012 Total Units
Electric Water Heater	31
Ceiling Fan	14
Clothes Washer	880
Dishwasher	393
Light Fixture	3,333
Refrigerator	416
Evaporative Cooler	2
Heat Pump, Ductless	2
Insulation-Attic	118,097
Insulation-Floor	1,500
Insulation-Wall	604
Windows	3,342
Lighting	72,764
Grand Total	201,387

Program performance results for the reporting period are provided in Table 12 below.

Table 12
Long-term Cost Effectiveness for Home Energy Saver Program

	Benefit/Cost Ratio	Net Benefits
Total Resource Cost Test plus 10 percent	1.83	\$722,270
Total Resource Cost Test	1.66	\$577,218
Utility Cost Test	2.22	\$798,271
Participant Cost Test	2.98	\$1,227,039
Rate Payer Impact	0.74	(\$518,096)

Program Management

The program manager is responsible for the *Home Energy Saver* program and the Refrigerator Recycling program in Idaho, California, Utah, Washington, and Wyoming. For each program and in each state the program manager is responsible for the cost effectiveness of the program, identifying and contracting with the program administrator through a competitive bid process, establishing and monitoring program performance and compliance, and recommending changes in the terms and conditions set out in the tariff.

Program Administration

The *Home Energy Saver* program is administered by PECI (formerly the Portland Energy Conservation, Inc.). PECI was incorporated by the City of Portland, Oregon in 1979 to carry out private sector aspects of the Portland Energy Conservation Policy. In 1984 the Company was

spun-off from the City of Portland, becoming a private, non-profit corporation. PECI has been designing and implementing energy efficiency programs since 1990.

PECI is responsible for the following:

- Retailer and trade ally engagement – PECI identifies, recruits, supports and assists retailers to increase the sale of energy efficient lighting, appliances and electronics. PECI enters into promotion agreements with each lighting manufacturer and retailer for the promotion of discounted compact fluorescent lighting (“CFL”). The agreements include specific retail locations, lighting products receiving incentives and not-to-exceed annual budgets. Weatherization and HVAC contractors engaged with the program are provided program materials, training and receive regular updates.
- Inspections – PECI recruits and hires inspectors to verify on an on-going basis the installation of measures. Summary of the inspection process is in Appendix 4.
- Incentive processing and call-center operations – PECI receives all requests for incentives, determines whether the applications are completed, works directly with customers when information is incorrect and/or missing from the application and processes the application for payment.
- Program specific customer communication and outreach – A summary of the communication and outreach conducted by PECI on behalf of the Company is outlined in the Communication, Outreach and Education section.

Infrastructure

The Company through its third party vendor is working with 24 retailers to promote CFLs and light-emitting diodes (“LEDs”). Table 13 lists the lighting retailers participating in the program.

Table 13²¹
Retail Stores – Lighting

Store Name	City
Ace Hardware #14355	Rexburg
Ace Hardware #9479	Saint Anthony
BMC West – Rexburg	Rexburg
Broulim's Fresh Foods #1	Montpelier
Broulim's Fresh Foods #2	Rexburg
Broulim's Fresh Foods #3	Saint Anthony
Dollar Tree #3691	Rexburg
Downey Food Center	Downey

²¹ To be considered for participation for discounted CFLs and LEDs, sales coming from Rocky Mountain Power customers must be a significant majority of total sales.

Store Name	City
Family Dollar #6349	Preston
Family Dollar #6398	Saint Anthony
Family Dollar #6777	Rexburg
Family Dollar #6790	Montpelier
Mickelsens #2	Rexburg
Platt Electric Supply #88	Rexburg
Thomas Market Inc. #1	Malad City
True Value #10119	Preston
True Value #10217	Montpelier
True Value #1064	Malad City
True Value #1654	Rexburg
True Value #5448	Terreton
True Value Hardware - CAL Ranch Stores	Rexburg
Walgreens #9918	Rexburg
Walmart #1878	Rexburg
Wolfe Lighting	Rexburg

Over 40 local and national retailers now consistently promote high efficiency appliances on behalf of the program. Table 14 lists the retailers where customers can purchase program qualifying appliances for program incentives.

Table 14
Retail Stores – Appliances

Retailer	City	Ceiling Fan	Clothes Washer	Dishwasher	Electric Water Heater	Evaporative Cooler	Fixture	Refrigerator
1st Street Plumbing	Idaho Falls				✓			
Ace Hardware - Rexburg	Rexburg			✓				
Best Buy #944	Idaho Falls	✓						
Bingham & Sons Furn. & Appl.	Rexburg	✓	✓					✓
Blacker's Home Furnishings	Idaho Falls	✓	✓					✓
Blacker's Complete Home Furnishings	Blackfoot							✓
Blackfoot Appliance	Blackfoot	✓						
Brand Source	Rexburg	✓	✓					✓
Dell's Home Appliance and Mattress Center	Pocatello	✓						✓
Dell's Mountain Electric	Pocatello	✓	✓					✓

Retailer	City	Ceiling Fan	Clothes Washer	Dishwasher	Electric Water Heater	Evaporative Cooler	Fixture	Refrigerator
Denning's Showcase	Idaho Falls	✓	✓					✓
Deranleaus of Lewiston	Lewiston	✓	✓					
El Genes	Rexburg	✓	✓					✓
Electrical Wholesale Supply Co Inc	Rexburg					✓		
Elements Building Specialities Inc.	Driggs	✓	✓			✓	✓	
Falls Plumbing Supply, Inc	Idaho Falls				✓			
Ferguson Enterprices	Idaho Falls						✓	
Ferguson Enterprises, Inc	Meridian	✓					✓	
First Street Plumbing	Idaho Falls				✓			
Gundersen True Value	Montpelier	✓					✓	
Home Depot #1802	Idaho Falls	✓	✓	✓	✓	✓	✓	✓
Home Depot #1807	Chubbuck	✓				✓	✓	
Home Depot #1808	Lewiston	✓				✓		
Lowe's of Idaho Falls	Idaho Falls	✓	✓	✓	✓	✓	✓	✓
Lowe's of Pocatello	Pocatello	✓	✓					✓
Northgate Appliance	Idaho Falls	✓					✓	
Pocatello Electric CO.	Pocatello	✓					✓	
RC Willey Appliances-Treasure Valley Store	Meridian	✓					✓	
Rocknacks Hardware Plus	Idaho Falls				✓			
Sanders Furniture	Soda Springs	✓	✓				✓	
Sears #1060	Chubbuck	✓	✓				✓	
Sears #2109	Twin Falls		✓	✓				
Sears #2209	Lewiston	✓					✓	
Sears #2278	Idaho Falls	✓	✓	✓			✓	
Sears #3121	Nampa						✓	
Sears #3192 - Ind/Blackfoot	Blackfoot						✓	
Sears #3290 - Ind/Rexburg	Rexburg	✓	✓				✓	
Stronks & Sons Do It Best	Ashton	✓	✓				✓	
Thomas Electric & Furniture	Malad	✓	✓				✓	
True Value - Gundersen True Value	Montpelier	✓	✓				✓	
U & I Furniture Co.	Preston			✓			✓	
Wolfe Lighting & Accents	Rexburg	✓				✓		

Table 15 and Table 16 list the HVAC, weatherization and window contractors.

Table 15
HVAC Contractors

Contractor Name	City	Central Air Conditioner (CAC)	Air Source Heat Pump Upgrade	Air Source Heat Pump Conversion	Air Source Heat Pump Best Practices Installation & Proper Sizing	Ductless Heat Pump	Heat Pump Tune-up	Heat Pump Water Heater	Duct Sealing/Duct Sealing & Duct Insulation
Holeshot Plumbing	Ammon							✓	
Alpine Heating	Idaho Falls	✓	✓	✓	✓	✓	✓		✓
Conan Heating	Idaho Falls	✓	✓	✓	✓	✓	✓		✓
First Call Jewel, Inc	Idaho Falls	✓	✓	✓	✓	✓	✓		
Palmer Heating and Cooling LLC	Idaho Falls	✓	✓	✓	✓	✓	✓		✓
Quantum Group Engineering	Idaho Falls	✓	✓	✓	✓	✓	✓		✓
Sermon Service and Electric	Idaho Falls	✓	✓	✓	✓	✓	✓		✓
Malad Heating and Cooling LLC	Malad City	✓	✓	✓	✓	✓			
Master Tech LLC	Rigby	✓	✓	✓	✓	✓			
Sprinter Heating and Hydronics	Rigby	✓	✓	✓	✓	✓			
Young Electric, Heating and Air	Shelley	✓	✓	✓	✓	✓	✓		

Table 16
Weatherization Contractors

Contractor Name	City	Attic Insulation	Floor Insulation	Wall Insulation	Windows
Hallmark Exteriors	Ammon	✓	✓	✓	✓
Eco Insulation	Blackfoot	✓	✓	✓	
Go Green Insulation	Caldwell	✓	✓	✓	
Alpine Heating	Idaho Falls	✓	✓	✓	
BMC West	Idaho Falls	✓	✓	✓	
Campbell's Quality Exteriors	Idaho Falls	✓	✓	✓	✓
First Call Jewel	Idaho Falls				✓
Valley Glass	Idaho Falls				✓
Precision Glass	Pocatello				✓
Rocky Mountain Insulation	Pocatello	✓	✓	✓	

Evaluation

In February 2012, a process and impact evaluation was completed by a third party evaluator for program years 2009-2010. The impact evaluation provided data on the gross realized savings and the Net-to-Gross ("NTG") ratio²². The process evaluation investigated participant satisfaction, implementation and delivery processes, marketing methods and quality assurance. The Company's response to the recommendations and web link to the evaluation report are included in Appendix 5.

Refrigerator Recycling

The *Refrigerator Recycling* program, also known as "See ya later, refrigerator®," is designed to decrease electricity use through voluntary removal and recycling of inefficient refrigerators and freezers. Participants receive a \$30 incentive for each qualifying refrigerator or freezer recycled through the program and an energy-saving kit which includes two CFLs, a refrigerator thermometer card, energy-savings educational materials, and information on other efficiency programs relevant to residential customers. Program participation by measure is provided in Table 17.

²² NTG is a factor representing net program savings divided by gross program savings that is applied to gross program impacts. This ratio is most often calculated as NTG = 1 – freeridership rate + spillover rate.

Table 17
Eligible Program Measures (Units)

Measures	2012 Total
Refrigerator Recycling	492
Freezer Recycling	169
Energy Savings Kit	604

Program performance results for the reporting period are provided in the Table 18 below.

Table 18
Long-term Cost Effectiveness for Refrigerator Recycling

	Benefit/Cost Ratio	Net Benefits
Total Resource Cost Test plus 10 percent	2.87	\$148,535
Total Resource Cost Test	2.61	\$127,800
Utility Cost Test	2.02	\$104,473
Participant Cost Test ²³	NA	\$427,909
Rate Payer Impact	0.65	(\$110,429)

In 2012, more than 85,269 pounds of metal, 13,200 pounds of plastics, and 1,983 pounds of tempered glass were recycled. In addition, the capture, recovery or destruction of more than 912 pounds of ozone depleting Chlorofluorocarbons (greenhouse gases) and Hydro fluorocarbons, commonly used in refrigerants and foam insulation equates to approximately 2,750 metric tons of carbon dioxide.

Program Management

The program manager is responsible for the *Refrigerator Recycling* program and *Home Energy Saver* program in Idaho, California, Utah, Washington, and Wyoming. For each program and in each state the program manager is responsible for the cost effectiveness of the program, identifying and contracting with the program administrator through a competitive bid process, establishing and monitoring program performance and compliance, and recommending changes in the terms and conditions set out in the tariff.

Program Administration

The *Refrigerator Recycling* program is administered by JACO Environmental (“JACO”). JACO started over 20 years ago in Snohomish County, north of Seattle, Washington, JACO has grown to become one of the largest recyclers of house-hold appliances in the United States. The Company contracts with JACO to provide customer scheduling, pick-up, incentive processing and marketing services for the See ya later, refrigerator® program.

²³ Participants in SYLR program incur no costs.

JACO also ensures that over 95 percent of the components and materials of the discarded appliance are either recycled for beneficial uses or eliminated in an environmentally responsible way. The remaining 5 percent can then be productively used as “fluff” to facilitate the decomposition of biodegradable landfill material.

JACO Environmental is responsible for the following:

- Customer and field services – JACO handles all customer and field service operations for the program. Pick-up of refrigerators and freezers from customers and transporting the units to the de-manufacturing facility is done by JACO.
- Incentive processing and call-center operations – All customer service calls, pick-up scheduling and incentive processing are handled by JACO.
- Program specific customer communication and outreach – Working in close coordination with the Company, JACO handles all the marketing for the program. The program is marketed through bill inserts, customer newsletters and TV, newspaper and online advertising.

Independent third party contract inspectors are employed by the Company to ensure JACO’s performance. The summary of the inspection process is included in Appendix 4.

Infrastructure

A crew from Salt Lake City, Utah picks-up units in Idaho and trucks the units to a JACO facility in Salt Lake City for disassembly and recycling.

Evaluation

In February 2012, a process and impact evaluation was completed by a third party evaluator for program years 2009-2010. The impact evaluation provided data on the gross realized savings and the NTG ratio. The process evaluation investigated participant satisfaction, implementation and delivery processes, marketing methods and quality assurance. The Company’s response to the recommendations and web link to the evaluation report are included in Appendix 5.

Low Income Weatherization

The *Low Income Weatherization* program provides energy efficiency services through a partnership between Rocky Mountain Power and local non-profit agencies to income-eligible households. Services are at no cost to the program participants.

Program participation and number of homes receiving specific measures is provided in Table 19.

Table 19
Homes Receiving Specific Measures

Participation - Total number of Homes Served	104
Ceiling Insulation	50
Attic Ventilation	33

Floor Insulation	26
Wall Insulation	6
Water Pipe Insulation	85
Water Heater Repair	9
Water Heater Replacement	4
Furnace Repair	46
Furnace Replacements	2
Duct Insulation	13
Replacement Windows	47
Infiltration	59
Thermal Doors	45
Refrigerators	3
Compact Fluorescent Light Bulbs	87
Health & Safety Measures	64

Program performance results for 2012 are provided in the Table 20.

Table 20
Long-term Cost Effectiveness for Low Income Weatherization

	Benefit/Cost Ratio	Net Benefits
Total Resource Cost Test plus 10 percent	1.06	\$16,808
Total Resource Cost Test	0.70	(\$85,594)
Utility Cost Test	0.70	(\$85,594)
Participant Cost Test	N/A	\$418,178
Rate Payer Impact	0.42	(\$275,463)

Program Management

The program manager is responsible for the *Low Income Weatherization* program in Idaho, California, Utah, Washington and Wyoming; energy assistance programs in Idaho, California, Oregon, Utah, Washington and Wyoming; and bill discount programs in California, Utah and Washington. The program manager is responsible for the cost effectiveness of the weatherization program in each state, partnerships and agreements in place with local agencies that serve income eligible households, establishing and monitoring program performance and compliance, and recommending changes in the terms and conditions set out in the agency contracts and state specific tariffs.

Program Administration

Rocky Mountain Power currently has contracts in place with Eastern Idaho Community Action Partnership (“EICAP”) and SouthEastern Idaho Community Action Agency (“SEICAA”) to provide services through the low income weatherization program. These two agencies receive federal funds allocated to the Idaho Department of Health and Welfare (“IDHW”) and administered by the Community Action Partnership Association of Idaho (“CAPAI”) through subcontracting non-profit agencies. Energy efficiency measures are installed in the homes of income eligible households throughout the Rocky Mountain Power’s service area by EICAP and

SEICAA. Company funding of 85 percent of the cost of approved measures is leveraged by the agencies with the funding received by IDHW.

By contract with the Company, EICAP and SEICAA are responsible for the following:

- Income Verification – Agencies determine participants are income eligible based on CAPAI guidelines. Household's interested in obtaining weatherization services apply through the agencies. The current income guidelines are included in Appendix 6.
- Energy Audit – Agencies use a United States Department of Energy approved audit tool to determine the cost effective measures to install in the participant's homes (audit results must indicate a savings to investment ratio of 1.0 or greater).
- Installation of Measures – Agencies install the energy efficiency measures.
- Post Inspections – Agencies inspect 100 percent of completed homes. IDHW and CAPAI also inspect a random sample of homes. See Appendix 4 for verification summary.
- Billing Notification - Agencies are required to submit a billing to Company within 120 days after job completion. The agencies include a form indicating the measures installed and associated cost on each completed home along with their invoice.

Evaluation

A Request for Proposal will be issued during the third quarter of 2013 to perform Low Income Weatherization process and impact evaluations.

Low Income Energy Conservation Education

The *Low Income Energy Conservation Education* program is designed to provide group and individual in-home education sessions to qualifying participants, as well energy efficiency instant savings kits with easy to install measures. The energy efficiency kits include one 13 watt CFL, one 19 watt CFL, one 23 watt CFL, ten electrical outlet insulation gaskets, one low flow kitchen aerator, one refrigerator temperature card and one low wattage luminescent night light. The kits compliment the education sessions which the agencies began offering in May, 2011.

A total of 151 households completed the conservation education sessions and received kits in 2012 resulting in a total estimated first year energy savings of 20,536 kWh at site. The program was designed to reach 500 households with its original funding of \$50,000 in 2010 and 2011. As of December 31, 2012, a total of 319 households have been served. No additional funds were issued in 2012.

COMMERCIAL AND INDUSTRIAL PROGRAMS

The commercial and industrial energy efficiency portfolio is comprised of three programs, *FinAnswer Express*, *Agricultural Energy Services* and *Energy FinAnswer*. The commercial and industrial portfolio was cost effective based on four of the five standard cost effectiveness tests for the 2012 reporting period, as provided in Table 21 below.

Table 21
Long-term Cost Effectiveness for Commercial and Industrial Portfolio

	Benefit/Cost Ratio	Net Benefits
Total Resource Test plus 10 percent	1.28	\$944,536
Total Resource Cost Test	1.16	\$548,141
Utility Cost Test	1.75	\$1,694,691
Participant Cost Test	1.92	\$2,162,884
Rate Payer Impact	0.76	(\$1,228,254)

FinAnswer Express

The *FinAnswer Express* program is designed to assist commercial and industrial, customers improve the efficiency of their new or replacement lighting, HVAC, motors, building envelope, and other equipment by providing prescriptive or pre-defined incentives for the most common efficiency measures listed in the program incentive tables.²⁴ The program also includes custom incentives and technical analysis services for measures not listed in the program incentive tables that improve electric energy efficiency. The program provides incentives for both new construction and retrofit projects, and is designed to operate in conjunction with the Energy FinAnswer program. Program participation by measure group is provided in Table 22.

Table 22
Installed Program Measures (applications)

Measure Groups	2012 Total
Dairy Farm Equipment	3
Building Shell	1
Food Services	2
HVAC	2
Lighting	72
Motors	1
Program Total	81

²⁴ Incentive tables can be found online at <http://www.rockymountainpower.net/bus/se/epi/idaho/ilc/fe2.html> for retrofits and <http://www.rockymountainpower.net/bus/se/epi/idaho/nfmr/fe.html> for new construction/major renovation projects

Program savings by measure group is provided in Table 23.

Table 23
Installed Program Measures (gross kWh/year at site)

Measure Groups	2012 Total
Dairy Farm Equipment	96,974
Building Shell	753
Food Services	26,580
HVAC	131,654
Lighting	4,216,144
Motors	1,009
Program Total	4,473,114

Program performance results for 2012 are provided in Table 24 below.

Table 24
Long-term Cost Effectiveness for FinAnswer Express

	Benefit/Cost Ratio	Net Benefits
Total Resource Test plus 10 percent	1.72	\$1,178,589
Total Resource Cost Test	1.56	\$921,863
Utility Cost Test	3.37	\$1,806,263
Participant Cost Test	1.76	\$1,199,195
Rate Payer Impact	0.98	(\$66,472)

Program Management

The program manager is responsible for the *FinAnswer Express* program in Idaho, California, Utah, Washington and Wyoming and the *Agricultural Energy Services* program in Idaho. For each state the program manager is responsible for the cost effectiveness of the program, identifying and contracting with the program administrators through a competitive bid process, program marketing, establishing and monitoring program performance and compliance, and recommending changes in the terms and conditions of the program.

Program Administration

The program is primarily marketed through local trade allies who receive support from one of two program administrators. The Company contracts with Nexant, Inc. (“Nexant”) and Cascade Energy (“Cascade”) for trade ally coordination, training and application processing services for commercial measures and industrial/agricultural measures respectively.

Nexant services include design, implementation, and evaluation of commercial, industrial, and residential energy efficiency programs in the United States. The Company contracts with Nexant

to provide trade ally coordination and application processing services for the commercial measures in the FinAnswer Express program.

Cascade is an industrial energy efficiency consulting firm providing both retrofit and new construction capital studies; tune-ups and retro-commissioning; utility demand-side management program design and administration; research and development; and energy management services. The Company contracts with Cascade Energy to provide trade ally coordination and application processing services for the industrial and farm/dairy measures in the FinAnswer Express program.

Nexant and Cascade are responsible for the following:

- Trade ally engagement – Nexant and Cascade identify, recruit, train, support and assist trade allies to increase sales and installation of energy efficient equipment at qualifying business customer facilities.
- Incentive processing and administrative support – Nexant and Cascade handle incoming inquiries as assigned, process FinAnswer Express incentive applications, develop and maintain simplified analysis tools and provide program design services, evaluation and regulatory support upon request.
- Inspections – Nexant and Cascade verify on an on-going basis the installation of measures. Summary of the inspection process is in Appendix 4.

In addition, the Company's project managers coordinate FinAnswer Express projects and provide customers with program services and incentives using the energy engineering consultants described further in the Energy FinAnswer program section.

Infrastructure

To help increase and improve the supplier and installation contractor infrastructure for energy-efficient equipment and services, the Company established and developed trade ally networks for lighting, HVAC and motors. This work includes identifying and recruiting trade allies, providing program and technical training and providing sales support on an ongoing basis. The current list of the trade allies who have applied and been approved as participating vendors are posted on the Company website and included as Appendix 7 to this report. Customers are not required to select a vendor from this list to receive an incentive.

The total number of participating trade allies is currently 78. The current counts of participating trade allies by technology are in the Table 25.

Table 25
Participating Trade Allies²⁵

	Lighting trade allies	HVAC trade allies	Motor and VFD trade allies
List dated 4/3/2013	44	34	34

Evaluation

As of the end of 2012, a process and impact evaluation for program years 2009-2011 was underway. Results are expected to be available in May 2013.

Agricultural Energy Services

The *Agricultural Energy Services* program is designed to improve the overall energy efficiency of irrigation systems by promoting energy efficient irrigation practices and the installation of energy efficient measures. The program also complements the Irrigation Load Control program by focusing on improving the efficiency and management of these seasonal loads.

The 2012 program included the follow customer service and measure components:

- Equipment Exchange: Provides new standard brass sprinkler nozzles, gaskets, and drains to replace worn equipment on hand lines, wheel lines and solid set sprinklers systems.
- Pivot and linear equipment Upgrades: Incentives are provided for certain pivot and linear system measures including sprinkler packages, pressure regulators, and drains. The list of prescriptive incentives is not designed to be exhaustive and other pivot measures are eligible for incentives if energy savings can be calculated and the customer incurs costs to make the changes.
- System consultation: This service provides a simple site specific audit of a customer's irrigation system to promote irrigation water management and identify energy savings opportunities. This consultation provides information prior to a full pump test.
- Pump testing – The pump test includes directly measuring pump lift, flow, electrical demand, and system pressures and is performed after the pump has been screened and the owner's financial investment criteria understood. System Analysis – The program provides energy engineering to help growers quantify the costs and savings of their system efficiency upgrades. Often these upgrade decisions are made in conjunction with operational production change considerations impacting a growers equipment needs. Incentives are based on a standard formula tied to costs and first year energy savings.

A summary of the program savings by measure group for 2012 is provided in Table 26.

²⁵ Some trade allies may participate in more than one technology so the count of unique participating firms is less than the total count by technology.

Table 26
Installed Program Measures (gross kWh/year at site)

Measure Groups	2012 Total
Equipment Exchange	302,151
Pivot/Linear Upgrade	1,492,563
System Redesigns	1,159,422
Program Total	2,954,136

Program performance results for the reporting period is provided in Table 27.

Table 27²⁶
Long-term Cost Effectiveness for Agricultural Energy Services

	Benefit/Cost Ratio	Net Benefits
Total Resource Test plus 10 percent	1.48	\$424,667
Total Resource Cost Test	1.34	\$304,868
Utility Cost Test	1.84	\$545,696
Participant Cost Test	2.20	\$830,635
Rate Payer Impact	0.76	(\$377,268)

Program Management

The program manager is responsible for the *Agricultural Energy Services* program in Idaho; the *FinAnswer Express* program in Idaho, California, Utah, Washington, and Wyoming. For each program and in each state the program manager is responsible for the cost effectiveness of the program, identifying and contracting with the program administrators through a competitive bid process, program marketing, establishing and monitoring program performance and compliance, and recommending changes in the terms and conditions set out in the tariff.

Program Administration

The program is primarily marketed through irrigation specialists, trade allies and retailers serving local irrigators. These efforts are supported by the program administrator, Nexant.

The Company contracts with Nexant to provide trade ally coordination and application processing services for *Agricultural Energy Savers* program. Nexant is responsible for the following:

- Trade ally engagement: identify, recruit, train, support and assist trade allies to increase sales and installation of energy efficient equipment at qualifying customer site.

²⁶ Results are based on planning assumptions regarding reported savings.

- Incentive processing and administrative support: handle incoming inquiries as assigned, process incentive applications and provide program design services, evaluation and regulatory support upon request.
- Inspections: verify equipment installation on a sample basis for Equipment Exchange and every installation for System Analysis.
- Engineering analysis – provide site specific engineering as required by the program for System Analysis.

Infrastructure

To help increase and improve the supplier and installation contractor infrastructure for energy-efficient equipment and services, the Company developed trade ally networks for irrigation equipment. The current lists of the trade allies who are participating vendors are posted on the Company website²⁷.

Evaluation

As of the end of 2012, a process and impact evaluation for program years 2009-2011 was underway by a third party evaluator.

Energy FinAnswer

The *Energy FinAnswer* program is offered to all non-residential new construction, retrofit commercial (buildings 20,000 square feet and larger) and industrial customers. The program is designed to target comprehensive projects requiring project specific energy savings analysis and operates in concert with the more streamlined FinAnswer Express program. The program provides Company-funded energy engineering, incentives of \$0.12 per kilowatt hour (“kWh”) for first year energy savings and \$50 per kW of average monthly demand savings, up to a cap of 50 percent of the approved project cost. In addition to customer incentives, the program provides design team honorariums (a finder fee for new construction projects) and design team incentives for new construction projects exceeding International Energy Conservation Code (“IECC”) 2009 energy code by at least 10 percent.

Projects completed during 2012 are provided in Table 28.

Table 28
Projects Completed

	2012 Total
Energy FinAnswer Commercial	0
Energy FinAnswer Industrial	7
Total Projects Completed	7

²⁷

http://www.rockymountainpower.net/content/dam/rocky_mountain_power/doc/Business/Save_Energy_Money/Irrigation_Energy_Savers_Participating_Dealers.pdf

Program savings by measure group is provided in Table 29.

Table 29
Installed Program Measures (gross kWh/year at site)

Measure Groups	2012 Total
Compressed Air	150,293
HVAC	12,401
Motors	156,221
Program Totals	318,915

Program performance results for the reporting period is provided in Table 30 below.

Table 30
Long-term Cost Effectiveness for Energy FinAnswer

	Benefit/Cost Ratio	Net Benefits
Total Resource Cost Test plus 10 percent	1.21	\$37,638
Total Resource Cost Test	1.10	\$17,769
Utility Cost Test	1.25	\$39,091
Participant Cost Test	3.18	\$133,054
Rate Payer Impact	0.69	(\$88,155)

Program Management

The program manager is responsible for the *Energy FinAnswer* program in Idaho, California, Utah, Washington, and Wyoming; the *Self-Direct* program in Utah and Wyoming; and the *Commercial & Industrial Re-Commissioning* program in Utah. The Company employs four full-time project managers²⁸ in support of the program manager.

Energy FinAnswer program is administered by the Company. Consequently, the program manager is responsible for the following:

- Program cost effectiveness and performance
- Ensuring the program is operated in compliance with commission tariffs and Company guidelines including but not limited to qualification of customers
- Customer communication and outreach
- Monitoring code and standard changes
- Qualification of materials and equipment
- Engineering analysis of customer opportunities
- Quality control and assurance
- Customer service, including the delivery of services and incentive

²⁸ Based on the volume of projects, temporary project managers and/or support staff are employed from time-to-time

- Verification of installation and savings²⁹

Infrastructure

Given the diversity of the commercial and industrial customers served by the Company, a pre-approved, pre-contracted group of engineering firms are used to perform facility specific energy efficiency analysis, quality assurance and verification. This being said, the individual projects are directly managed by one of the Company's project managers. The project manager works directly with the customer or through the appropriate community and customer account manager located in Idaho. Table 31 lists the engineering firms currently under contract with the Company.

Table 31
Engineering Firms

Engineering Firm	Main Office Location
Abacus Resource Management Company	Beaverton, OR
BacGen Technologies	Seattle, WA
Brendle Group Inc	Fort Collins, CO
Cascade Energy	Cedar Hills, UT
Compression Engineering Corp	Salt Lake City, UT
Eaton – EMC Engineers	Salt Lake City, UT
EMP2 Inc	Richland, WA
ETC Group	Salt Lake City, UT
Evergreen Consulting Group	Beaverton, OR
Fazio Engineering	Milton-Freewater, OR
Glumac	Portland, OR
Group 14 Engineering	Denver, CO
GSBS Architects	Salt Lake City, UT
Interface Engineering	Portland, OR
kW Engineering Inc	Oakland, CA
PAE Consulting Engineers Inc	Portland, OR
Nexant Inc	Salt Lake City, UT
PCD Engineering Services Inc	Longmont, CO
QEI Energy Management Inc	Beaverton, OR
RHT Energy Solutions	Medford, OR
RM Energy Consulting	Pleasant Grove, UT
SBW Consulting Inc	Bellevue, WA
Sharpe Energy Solutions Inc	Ashland, OR
Solarc Architecture & Engineering Inc	Eugene, OR
Van Boerum & Frank Associates	Salt Lake City, UT

Evaluation

As of the end of 2012, a process and impact evaluation for program years 2009-2011 was underway by a third party evaluator.

²⁹ Summary of inspection process is in Appendix 4.

COMMUNICATIONS, OUTREACH AND EDUCATION

The Company utilizes earned media, customer communications, paid media and program specific media in an effort to communicate the value of energy efficiency, provide information regarding low-cost, no-cost energy efficiency measures, and to educate customers on the availability of technical assistance, services and incentives. The overall goal is to engage customers in reducing their energy usage through behavioral changes as well as changes in equipment, appliances and structures.

Earned Media

Earned media is managed by Rocky Mountain Power's external communications department in cooperation with the customer and community managers located in Idaho. "Earned media" generally refers to favorable television, radio, newspaper or internet news coverage gained through press releases, media events, opinion pieces, story pitches or other communication with news editors and reporters. From January 1, 2012 – December 31, 2012, the Company identified three news stories that mentioned its energy efficiency programs or tips which resulted from (1) earned media activities, (2) articles placed in newspapers' progress editions in conjunction with paid advertisements, and (3) without prompting by the Company. A list of the news stories, date of publication or airing, and media outlet are listed below.

- 5/15 – Local News 8; KIDK 3 (television): Celebrating 100 years (energy efficiency presentation at Ammon Elementary School to kick off Centennial Road Tour)
- 5/24 – The Idaho Enterprise: Elementary students visited by 'Slim the Lineman'
- 5/23 – Montpelier News-Examiner: RMP celebrates 100 years of service

Customer Communications

As part of the Company's regular communications to its customers, newsletters across all customer classes promote energy efficiency initiatives and case studies on a regular basis. Inserts and outer envelopes featuring energy efficiency messages and programs have also been used on a consistent basis. In 2012, the Company also issued two newsletters focused entirely on seasonal energy efficiency information targeted in the fall and spring.

The Company also utilizes social media, such as Twitter and Facebook to communicate and engage customers on DSM offers and incentives.

Program Specific

All energy efficiency program marketing and communications are under the *wattsmart* umbrella to ensure a seamless transition from changing customer behavior to the actions they could take by participating in specific programs. Separate marketing activities administered by and specific to the programs ran in conjunction with the *wattsmart* campaign.

Home Energy Saver program

The *Home Energy Saver* program communicates to customers, retailers and trade allies through a variety of channels. In January and February 2012, new heat pump sales pieces were developed and a retailer resource manual was distributed. Communications promoting online application processing were provided to retailers during the first part of the year as well.

In the summer, program communications focused on cooling measures. The cooling campaign included:

- Room air conditioner point of purchase material
- Handout material for retailers and trade allies to use in their sales to customers
- Web features
- Online and print ads
- Bill insert

Results from the campaign indicate increased savings from cooling measures in 2012 compared to previous years.

A similar heating campaign was developed for the fall and winter, including:

- Web features
- Sales handout and outreach to trade allies
- Bill insert
- Social media

Results from the campaign will be compiled after the heating season in 2013.

In November 2012, the Company launched a Black Friday campaign to promote efficient equipment purchases during the holiday shopping season and encourage participation in the program.

Residential Refrigerator Recycling

The Company promotes its *See ya later, refrigerator®* program through informational advertisements and other customer communications. In 2012, the program garnered 1,287,684 impressions. Breakdown of impressions by media type is shown in Table 32.

Table 32
See ya later, refrigerator® Program

Communications Channel	2012
Newspaper	1,275,350
Digital	12,334

FinAnswer Express and Energy FinAnswer

During 2012 communications emphasized the change in federal lighting standards that took place July 14, 2012. This standard applies to manufacturers of general service fluorescent lamps. Customers were encouraged to retrofit their older linear fluorescent lighting before as well as after the standards change. The Company added a video³⁰ and retained a page³¹ on the website dedicated to this topic. In 2012, the program garnered 493,098 impressions. Breakdown of impressions by media type is shown in Table 33.

Table 33
Energy FinAnswer and FinAnswer Express programs

Communications Channel	2012
Newspaper	132,560
Digital	360,538

Agricultural Energy Services

The Company promotes the *Agricultural Energy Services* program at key events and reaches out directly to participating customers and dealers when there are updates or changes to the program. Communication activities during 2012 included:

- Irrigation Equipment Show, presented by the Idaho Irrigation Equipment Association on January 5, 2012 in Idaho Falls, Idaho. The Company presented information about the program and highlighted irrigation energy saving projects.
- Eastern Idaho Ag Expo on January 17th, 18th, and 19th in Pocatello, ID. Company had sponsored a booth to promote the program and answer program questions for customers and dealers.
- The updated 2012 program applications were provided to all of the participating dealers. The Company followed up with phone calls to answer any questions customers had regarding the changes.

³⁰ www.rockymountainpower.net/idsave

³¹ www.rockymountainpower.net/lightingstandards

EVALUATIONS

Evaluations are performed by independent external evaluators to validate energy and demand savings derived from the Company's energy efficiency programs. Industry best practices are adopted by the Company with regards to principles of operation, methodologies, evaluation methods, definitions of terms, and protocols including those outlined in the National Action Plan for Energy Efficiency ("NAPEE") Program Impact Evaluation and the California Evaluation Framework guides.

A component of the overall evaluation efforts is aimed at the reasonable verification of installations of energy efficient measures and associated documentation through review of documentation, surveys and/or ongoing onsite inspections.

Verification of the potential to achieve savings involves regular inspection and commissioning of equipment. The Company engages in programmatic verification activities, including inspections, quality assurance reviews, and tracking checks and balances as part of routine program implementation and may rely upon these practices in the verification of installation information for the purposes of savings verifications in advance of more formal impact evaluation results.

Evaluation, measurement and verification ("EM&V") tasks are segregated within the Company's organization to ensure they are performed and managed by personnel who have a neutral interest in the benefits associated with anticipated savings.

In June 2011, Rocky Mountain Power awarded multi-year contracts to evaluate the Company's energy efficiency programs for all states. The contracts awarded were completed through a competitive bid process.

The Idaho *Home Energy Saver* and *See ya later, refrigerator*® program evaluations summary of recommendations and web link to reports are provided in Appendix 5.

Outlined below is a list of the programs, the program years completed during 2012 and the third party evaluator who performed the evaluation.

Program	Years Evaluated	Evaluator
Home Energy Savers	2009-2010	The Cadmus Group
See ya later, refrigerator	2009-2010	The Cadmus Group



Appendix 1

Explanation of Capacity Estimates 2012

Energy Efficiency Programs

The MW reported savings of 2.69 (at generation) for energy efficiency programs during 2012 represents the summation of estimated MW values made available through the Company's business and residential energy efficiency programs; calculations for the business and residential programs differ.

The Company's business programs MW contributions are based on engineering estimates of capacity values for installed measures; project unique factors are individually calculated for custom projects while deemed factors are utilized for prescriptive measures. These calculations are based on actual installed measures in the reported year. For 2012, it is calculated that 1.72 MW of capacity contribution were made available through business program energy efficiency acquisitions. Specific hours during which business program measures contribute MW capacity are dependent upon several factors including specific business operations and general economic conditions.

For the residential programs, energy to capacity factor is utilized to calculate the MW savings made available through these programs. The energy to capacity factor utilized in the calculation (2.07 MW in 2012 for each average MWh of energy efficiency acquired) is the same as the average load profile factor of energy efficiency resources selected in the 2011 IRP, i.e. the average peak contribution of the energy efficiency resource selections across all measures and sectors. The utilization of this factor in the MW calculation assumes that the energy efficiency resources acquired through the Company's residential programs have the same average load profile as those energy efficiency resources selected in the 2011 IRP. Utilization of this factor in determining the MW contribution of energy efficiency programs for 2012 is detailed in the table below.

Line	Description	Value
1	First year EE program savings acquired during 2012	4,095
2	Average MWh value (line 1 / 8760 hours)	0.47
3	Peak MW contribution of 2012 EE acquisitions	0.97

As demonstrated, it is estimated that the residential energy efficiency program acquisitions in 2012 contributed 0.97 MW of capacity contribution. As with the business programs, when these savings occur on an hourly basis is dependent upon several factors including energy usage patterns of residential customers.

Together, the 1.72 MW's estimated for the business programs and the 0.97 MW's estimated for residential programs make up the 2.69 MW savings value of energy efficiency programs.



Appendix 2

Idaho Cost Effectiveness

Table of Contents

Portfolio and Sector Level Cost Effectiveness	3
Program Level Cost Effectiveness.....	6
Home Energy Savings Program – Schedule 118	6
Refrigerator Recycling (See ya later, refrigerator®) – Schedule 117.....	8
Low Income Weatherization – Schedule 21	10
FinAnswer Express – Schedule 115	12
Agricultural Energy Services (Irrigation Energy Savers) – Schedule 155	14
Energy FinAnswer – Schedule 125.....	16

Portfolio and Sector Level Cost Effectiveness

The overall energy efficiency portfolio and component sectors were cost effective on a PacifiCorp Total Resource Cost Test (PTRC), Total Resource Cost Test (TRC), Utility Cost Test (UCT), and Participant Cost Test (PCT) basis.

The following table provides the results of all five cost effectiveness tests.

2012 Portfolio and Sector Cost Effectiveness Summary	PTRC	TRC	UCT	RIM	PCT
2012 Total Energy Efficiency Portfolio	1.364	1.225	1.706	0.722	2.433
2012 C&I Energy Efficiency Portfolio	1.277	1.160	1.747	0.763	1.924
2012 Residential Energy Efficiency Portfolio	1.595	1.394	1.636	0.650	4.357

Sector and Program Level Cost Effectiveness Summaries:

The cost effectiveness results for the sector level are aggregations of the costs and benefits from the component programs. The inputs and assumptions that support these results are contained in the program level cost effectiveness results.

Table 1: Common Inputs

Parameter	Value
Discount Rate	7.17%
Residential Line Loss	11.47%
Commercial Line Loss	10.75%
Industrial Line Loss	7.52%
Agriculture Line Loss	11.48%
Residential Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.1007
Commercial Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.0843
Industrial Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.0545
Irrigation Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.0831

¹ Future rates determined using a 1.8% annual escalator.

Table 2: Portfolio Costs

Portfolio Costs	
Residential Portfolio Evaluation Costs	\$100,261
C&I Portfolio Evaluation Costs	\$696,359
Technical Reference Library	\$6,477
New Programs	\$82
Total	\$803,179

Table 3: Low Income Energy Education Savings

Savings (kWh)	
Low Income Energy Education	20,536

Table 4: 2012 Total Energy Efficiency Portfolio including Low Income Education Savings

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0749	\$4,760,028	\$6,494,280	\$1,734,253	1.364
Total Resource Cost Test (TRC) No Adder	0.0749	\$4,760,028	\$5,828,886	\$1,068,858	1.225
Utility Cost Test (UCT)	0.0537	\$3,415,751	\$5,828,886	\$2,413,135	1.706
Rate Impact Test (RIM)		\$8,067,998	\$5,828,886	(\$2,239,112)	0.722
Participant Cost Test (PCT)		\$2,962,097	\$7,206,270	\$4,244,173	2.433
Lifecycle Revenue Impacts (\$/kWh)				\$0.000043739	

Table 5: 2012 C&I Energy Efficiency Portfolio including Evaluation Costs

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0786	\$3,415,808	\$4,360,343	\$944,536	1.277
Total Resource Cost Test (TRC) No Adder	0.0786	\$3,415,808	\$3,963,948	\$548,141	1.160
Utility Cost Test (UCT)	0.0522	\$2,269,257	\$3,963,948	\$1,694,691	1.747
Rate Impact Test (RIM)		\$5,192,203	\$3,963,948	(\$1,228,254)	0.763
Participant Cost Test (PCT)		\$2,342,043	\$4,504,927	\$2,162,884	1.924
Lifecycle Revenue Impacts (\$/kWh)				\$0.000032979	

Table 6: 2012 Residential Energy Efficiency Portfolio Including Evaluation Costs & Low Income Education Savings

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0665	\$1,337,662	\$2,133,937	\$796,276	1.595
Total Resource Cost Test (TRC) No Adder	0.0665	\$1,337,662	\$1,864,937	\$527,276	1.394
Utility Cost Test (UCT)	0.0567	\$1,139,936	\$1,864,937	\$725,002	1.636
Rate Impact Test (RIM)		\$2,869,237	\$1,864,937	(\$1,004,300)	0.650
Participant Cost Test (PCT)		\$620,054	\$2,701,343	\$2,081,289	4.357
Lifecycle Revenue Impacts (\$/kWh)				\$0.000019618	

Program Level Cost Effectiveness

Home Energy Savings Program – Schedule 118

The tables below present the cost-effectiveness findings of the Idaho Home Energy Savings program based on Rocky Mountain Power's 2012 costs and savings estimates. The Utility discount rate is from the 2011 Integrated Resource Plan (IRP).

Cost-effectiveness was tested using the 2011 IRP 35% load factor east residential whole house decrement. Table 1 lists modeling inputs.

The program is cost-effective from the PTRC, TRC, UCT and PCT perspectives.

Table 3: Home Energy Savings Inputs

Parameter	Value
Discount Rate	7.17%
Residential Line Loss	11.47%
Residential Energy Rate (\$/kWh) (2012 base rate ²)	\$0.1007

Table 4: Home Energy Savings Annual Program Costs

	Program Management and Administration	Other Program Costs	Incentives	Total Utility Costs	Net Participant Incremental Cost
Lighting	\$9,862	\$1,918	\$85,501	\$97,281	\$170,568
Appliance	\$193,291	\$37,588	\$167,350	\$398,229	\$273,987
Home Improvement	\$75,044	\$14,593	\$52,841	\$142,478	\$73,829
HVAC	\$7,464	\$1,452	\$5,344	\$14,260	\$13,705
Total	\$285,661	\$55,551	\$311,036	\$652,248	\$532,089

Table 5: Home Energy Savings Savings by Measure Type

	Gross kWh Savings	Realization Rate	Adjusted Gross Savings	Net to Gross Percentage	Net kWh Savings	Measure Life
Lighting	1,871,318	100%	1,871,318	85%	1,590,621	5
Appliance	522,421	100%	522,421	86%	449,282	15
Home Improvement	202,826	100%	202,826	87%	176,459	30
HVAC	20,174	100%	20,174	86%	17,350	18
Total	2,616,739		2,616,739		2,233,711	

² Future rates determined using a 1.8% annual escalator.

Table 6: Home Energy Savings Cost-Effectiveness Results

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0569	\$873,301	\$1,595,571	\$722,270	1.827
Total Resource Cost Test (TRC) No Adder	0.0569	\$873,301	\$1,450,519	\$577,218	1.661
Utility Cost Test (UCT)	0.0425	\$652,248	\$1,450,519	\$798,271	2.224
Rate Impact Test (RIM)		\$1,968,615	\$1,450,519	(\$518,096)	0.737
Participant Cost Test (PCT)		\$620,054	\$1,847,093	\$1,227,039	2.979
Lifecycle Revenue Impacts (\$/kWh)				\$0.000010121	
Discounted Participant Payback (years)				1.36	

Refrigerator Recycling (See ya later, refrigerator®) – Schedule 117

The tables below present the cost-effectiveness findings of the Idaho See-Ya-Later Refrigerator program based on Rocky Mountain Power's 2012 costs and savings estimates. The Utility discount rate is from the 2011 Integrated Resource Plan (IRP).

Cost-effectiveness was tested using the 2011 IRP 35% load factor east residential whole house decrement. Table 1 lists modeling inputs.

The program is cost-effective from the PTRC, TRC, UCT and PCT perspectives.

Table 7: See-Ya-Later Refrigerator Inputs

Parameter	Value
Discount Rate	7.17%
Residential Line Loss	11.47%
Residential Energy Rate (\$/kWh) (2012 base rate ³)	\$0.1007

Table 8: See-Ya-Later Refrigerator Annual Program Costs

	Marketing and Program Development	Utility Admin	Program Management and Administration	Incentives	Total Utility Costs	Net Participant Incremental Cost
Refrigerators	\$878	\$7,319	\$49,581	\$14,760	\$72,538	\$0
Freezers	\$264	\$2,199	\$14,899	\$5,070	\$22,432	\$0
Kits	\$67	\$559	\$3,785	\$3,497	\$7,908	\$0
Total	\$1,209	\$10,077	\$68,265	\$23,327	\$102,878	\$0

Table 9: See-Ya-Later Refrigerator Savings by Measure Type

	Gross kWh Savings	Realization Rate	Adjusted Gross Savings	Net to Gross Percentage	Net kWh Savings	Measure Life
Refrigerators	585,480	100%	585,480	49%	284,543	6
Freezers	175,929	100%	175,929	57%	99,576	9
Kits	44,696	100%	44,696	100%	44,696	5
Total	806,105		806,105		428,815	

³ Future rates determined using a 1.8% annual escalator.

Table 10: See-Ya-Later Refrigerator Cost-Effectiveness Results

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0306	\$79,551	\$228,086	\$148,535	2.867
Total Resource Cost Test (TRC) No Adder	0.0306	\$79,551	\$207,351	\$127,800	2.607
Utility Cost Test (UCT)	0.0396	\$102,878	\$207,351	\$104,473	2.016
Rate Impact Test (RIM)		\$317,780	\$207,351	(\$110,429)	0.652
Participant Cost Test (PCT)		\$0	\$427,909	\$427,909	NA
Lifecycle Revenue Impacts (\$/kWh)				\$0.000004063	
Discounted Participant Payback (years)					NA

Low Income Weatherization – Schedule 21

The tables below present the cost-effectiveness findings of the Idaho Low Income Weatherization program based on Rocky Mountain Power's 2012 costs and savings estimates. The Utility discount rate is from the 2011 Integrated Resource Plan (IRP).

Cost-effectiveness was tested using the 2011 IRP medium carbon 35% load factor east residential whole house decrement. Table 1 lists modeling inputs.

With non-energy benefits added in, the program is cost-effective from only the PTRC perspective.

Table 1: Low Income Weatherization Inputs

Parameter	Value
Discount Rate	7.17%
Residential Line Loss	11.47%
Residential Energy Rate (\$/kWh) (2012 base rate ⁴)	\$0.1007

Table 2: Low Income Weatherization Annual Program Costs

	Utility Admin	Administration	Evaluation	Incentives	Total Utility Costs	Net Participant Incremental Cost
Low Income Weatherization	\$25,454	\$25,236	\$5,550	\$228,309	\$284,549	\$0

Table 3: Low Income Weatherization Savings by Measure Type

	Gross kWh Savings	Realization Rate	Adjusted Gross Savings	Net to Gross Percentage	Net kWh Savings	Measure Life
Low Income Weatherization	230,238	65%	149,655	100%	149,655	25

Table 4: Low Income Weatherization Non-Energy Benefits

Non-Energy Benefit	Program Impact	Perspective Adjusted
Health, Safety and Repair Costs	\$82,506	PTRC

⁴ Future rates determined using a 1.8% annual escalator.

Table 5: Low Income Weatherization Cost-Effectiveness Results

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.1387	\$284,549	\$301,356	\$16,808	1.059
Total Resource Cost Test (TRC) No Adder	0.1387	\$284,549	\$198,955	(\$85,594)	0.699
Utility Cost Test (UCT)	0.1387	\$284,549	\$198,955	(\$85,594)	0.699
Rate Impact Test (RIM)		\$474,418	\$198,955	(\$275,463)	0.419
Participant Cost Test (PCT)		\$0	\$418,178	\$418,178	NA
Lifecycle Revenue Impacts (\$/kWh)				\$0.000005763	
Discounted Participant Payback (years)				NA	

FinAnswer Express – Schedule 115

The tables below present the cost-effectiveness findings of the Idaho FinAnswer Express program based on Rocky Mountain Power's 2012 costs and savings estimates. The Utility discount rate is from the 2011 Integrated Resource Plan (IRP).

Cost-effectiveness was tested using the 2011 IRP 69% load factor east system decrement. Table 1 lists modeling inputs.

The program is cost-effective from the PTRC, TRC, UCT and PCT perspectives.

Table 1: FinAnswer Express Inputs

Parameter	Value
Discount Rate	7.17%
Commercial Line Loss	10.75%
Industrial Line Loss	7.52%
Commercial Energy Rate (\$/kWh) (2012 base rate) ⁵	\$0.0843
Industrial Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.0545

Table 2: FinAnswer Express Annual Program Costs

	Evaluation	Program Costs	Utility Admin	Engineering Costs	Incentives	Total Utility Costs	Net Participant Incremental Cost
Commercial	\$52,011	\$222,595	\$40,111	\$28,513	\$189,481	\$532,711	\$828,291
Industrial	\$12,004	\$65,652	\$5,028	\$14,476	\$131,129	\$228,290	\$376,719
Total	\$64,016	\$288,247	\$45,139	\$42,989	\$320,610	\$761,001	\$1,205,010

Table 3: FinAnswer Express Savings by Measure Type

	Gross kWh Savings	Realization Rate	Adjusted Gross Savings	Net to Gross Percentage	Net kWh Savings	Measure Life
Commercial	2,205,353	96%	2,117,139	76%	1,609,026	12
Industrial	2,267,759	96%	2,177,049	76%	1,654,557	12
Total	4,473,112		4,294,188		3,263,583	

⁵ Future rates determined using a 1.8% annual escalator.

Table 4: FinAnswer Express Cost-Effectiveness Results

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0561	\$1,645,401	\$2,823,990	\$1,178,589	1.716
Total Resource Cost Test (TRC) No Adder	0.0561	\$1,645,401	\$2,567,264	\$921,863	1.560
Utility Cost Test (UCT)	0.0260	\$761,001	\$2,567,264	\$1,806,263	3.374
Rate Impact Test (RIM)		\$2,633,735	\$2,567,264	(\$66,472)	0.975
Participant Cost Test (PCT)		\$1,585,539	\$2,784,734	\$1,199,195	1.756
Lifecycle Revenue Impacts (\$/kWh)				\$0.000002035	
Discounted Participant Payback (years)				5.09	

Agricultural Energy Services (Irrigation Energy Savers) – Schedule 155

The tables below present the cost-effectiveness findings of the Idaho Agriculture program based on Rocky Mountain Power's 2012 costs and savings estimates. The Utility discount rate is from the 2012 Integrated Resource Plan (IRP).

Cost-effectiveness was tested using the 2011 IRP medium carbon 20% load factor east commercial cooling decrement. Table 1 lists modeling inputs.

The program is cost-effective from the PTRC, TRC, UCT and PCT perspectives.

Table 1: Agricultural Energy Savers Inputs

Parameter	Value
Discount Rate	7.17%
Agriculture Line Loss	11.48%
Irrigation Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.0831

Table 2: Agricultural Energy Savers Annual Program Costs

	Evaluation	Utility Admin	Administration	Engineering Costs	Incentives	Total Utility Costs	Net Participant Incremental Cost
Equipment Exchange	\$173	\$3,177	\$12,626	\$23,099	\$25,572	\$64,647	\$18,795
Pivot/Linear Upgrade	\$855	\$15,694	\$62,368	\$114,105	\$108,461	\$301,483	\$181,101
System Redesigns	\$664	\$12,191	\$48,448	\$88,637	\$136,229	\$286,169	\$311,194
Total	\$1,693	\$31,061	\$123,442	\$225,841	\$270,262	\$652,299	\$511,090

Table 3: Agricultural Energy Savers Savings by Measure Type

	Gross kWh Savings	Realization Rate	Adjusted Gross Savings	Net to Gross Percentage	Net kWh Savings	Measure Life
Equipment Exchange	302,151	100%	302,151	74%	222,081	5
Pivot/Linear Upgrade	1,492,563	100%	1,492,563	74%	1,097,034	5
System Redesigns	1,159,422	100%	1,159,422	74%	852,175	7
Total	2,954,136		2,954,136		2,171,290	

Table 4: Agricultural Energy Savers Cost-Effectiveness Results

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0752	\$893,127	\$1,317,795	\$424,667	1.475
Total Resource Cost Test (TRC) No Adder	0.0752	\$893,127	\$1,197,995	\$304,868	1.341
Utility Cost Test (UCT)	0.0549	\$652,299	\$1,197,995	\$545,696	1.837
Rate Impact Test (RIM)		\$1,575,263	\$1,197,995	(\$377,268)	0.761
Participant Cost Test (PCT)		\$695,360	\$1,525,995	\$830,635	2.195
Lifecycle Revenue Impacts (\$/kWh)				\$0.000016451	
Discounted Participant Payback (years)				1.77	

Energy FinAnswer – Schedule 125

The tables below present the cost-effectiveness findings of the Idaho Energy FinAnswer program based on Rocky Mountain Power's 2011 costs and savings estimates. The Utility discount rate is from the 2011 Integrated Resource Plan (IRP).

Cost-effectiveness was tested using the 2011 IRP 69% load factor east system decrement. Table 1 lists modeling inputs.

The program is cost-effective from the PTRC, TRC, UCT and PCT perspectives.

Table 1: Energy FinAnswer Inputs

Parameter	Value
Discount Rate	7.17%
Commercial Line Loss	10.75%
Industrial Line Loss	7.52%
Commercial Energy Rate (\$/kWh) (2012 base rate) ⁶	\$0.0843
Industrial Energy Rate (\$/kWh) (2012 base rate) ¹	\$0.0545

Table 2: Energy FinAnswer Annual Program Costs

	Evaluation	Engineering Costs	Utility Admin	Incentives	Total Utility Costs	Net Participant Incremental Cost
Commercial	\$1,569	\$15,626	\$4,080	\$0	\$21,275	\$0
Industrial	\$4,904	\$79,819	\$29,065	\$24,535	\$138,323	\$45,857
Total	\$6,473	\$95,444	\$33,146	\$24,535	\$159,599	\$45,857

Table 3: Energy FinAnswer Savings by Measure Type

	Gross kWh Savings	Realization Rate	Adjusted Gross Savings	Net to Gross Percentage	Net kWh Savings	Measure Life
Commercial	-	91%	0	75%	0	15
Industrial	318,915	91%	290,213	75%	217,659	15
Total	318,915		290,213		217,659	

⁶ Future rates determined using a 1.8% annual escalator.

Table 4: Energy FinAnswer Cost-Effectiveness Results

	Levelized \$/kWh	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	0.0801	\$180,921	\$218,559	\$37,638	1.208
Total Resource Cost Test (TRC) No Adder	0.0801	\$180,921	\$198,690	\$17,769	1.098
Utility Cost Test (UCT)	0.0706	\$159,599	\$198,690	\$39,091	1.245
Rate Impact Test (RIM)		\$286,845	\$198,690	(\$88,155)	0.693
Participant Cost Test (PCT)		\$61,143	\$194,197	\$133,054	3.176
Lifecycle Revenue Impacts (\$/kWh)				\$0.000002367	
Discounted Participant Payback (years)				2.40	



Appendix 3

Preliminary Energy Efficiency Measures
for Idaho

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Energy FinAnswer	Measure Category : Custom	Non-Residential			
	Custom	Custom engineering for industrial and large commercial	01/01/2012	RMP Calculation	Energy savings vary by installation
	Custom	Custom engineering for industrial and large commercial	01/01/2012	RMP Calculation	Energy savings vary by installation
	Custom	Custom engineering for industrial and large commercial with design assistance for whole building	01/01/2012	RMP Calculation	Energy savings vary by installation

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program	Measure Category	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (kWh/yr)	Savings unit
Program: FinnAnswer Express					
Measure Category: Appliances					
Clothes Washers:Commercial Clothes Washer	Non-Residential				
□(high-Efficiency Clothes Washer (Must have Electric Water Heating) - Commercial (Coin-operated/Baundromat) - CEE Tier □ - ID)	CEE Tier 2 Qualified □(high Efficiency Clothes Washer	07/27/2012	R□□ Deemed	1,22□,00	Measure
□(high-Efficiency Clothes Washer (Must have Electric Water Heating) - Commercial (Coin-operated/Baundromat) - ENERG□ STAR □Qualified - ID)	Energy Star □Qualified □(high Efficiency Clothes Washer	07/27/2012	R□□ Deemed	□,000,00	Measure
Clothes Washers:Residential Clothes Washer	Non-Residential				
□(high-Efficiency Clothes Washer - Residential (used in a business) - ID)	□(ome Energy Savings □(aligned □(high Efficiency Residential Clothes Washer used in a business	07/27/2012	R□□ Deemed	1,□,00	Measure
Water Heater:Residential Water Heater	Non-Residential				
Electric Water Heater (Residential used in a business): 40-49 gallon - ID	Residential Electric Water Heater	07/14/2012	RTF Deemed	86,00	Measure
Electric Water Heater (Residential used in a business): 50-65 gallon - ID	Residential Electric Water Heater	07/14/2012	RTF Deemed	125,00	Measure
Electric Water Heater (Residential used in a business): 66+ gallon - ID	Residential Electric Water Heater	07/14/2012	RTF Deemed	131,00	Measure
Measure Category: Building Shell					
Insulation:Roof/Attic Insulation					
Roof/Attic Insulation - New Construction - ID	New Construction Roof/Attic Insulation	07/14/2012	RMP Deemed	0,04	Sq. ft.
Roof/Attic Insulation - Retrofit - ID	Retrofit Roof/Attic Insulation	07/14/2012	RMP Deemed	0,08	Sq. ft.
Insulation:Wall Insulation	Non-Residential				
Wall Insulation - New Construction - ID	New Construction Wall Insulation	02/24/2012	RMP Deemed	10,458,00	Sq. ft.
Wall Insulation - Retrofit - ID	Retrofit Wall Insulation	07/14/2012	RMP Deemed	0,06	Sq. ft.
Roof:Cool Roof	Non-Residential				
Cool Roof - New Construction - ID	New Construction, Cool Roof, reflective roofing	07/14/2012	RMP Deemed	0,33	Sq. ft.
Cool Roof - Retrofit - ID	Retrofit,Cool Roof, reflective roofing	07/14/2012	RMP Deemed	0,33	Sq. ft.
Windows:Window Film	Non-Residential				
Window Film: Existing Windows - ID	Window Film	07/14/2012	RMP Calculation	Savings vary by install configuration - see attached calculator	Site-specific
Windows:Window Replacement					
Windows - Retrofit: Assembly - ID	Retrofit preassembled windows	07/14/2012	RMP Deemed	4,42	Sq. ft.
Windows - Retrofit: Site-Built - ID	Retrofit Site built windows	07/14/2012	RMP Deemed	4,06	Sq. ft.
Windows:Window Upgrade					

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> Gross incremental annual electric savings (\$/Wh/yr)	Savings unit
Program : FinAnswer Express					
Windows - New Construction: Assembly - ID	New construction preassembled windows	07/14/2012	RMP Deemed	1.22	Sq. ft.
Windows - New Construction: Site-Built - ID	New construction site built windows	07/14/2012	RMP Deemed	1.22	Sq. ft.
Measure Category: Compressed Air					
Compressed Air:Low-pressure drop filter					
Low-pressure drop filter (New Construction) - ID	Low pressure drop filter in place of regular filter	07/14/2012	RMP Calculation	0.00	Scfm
Low-pressure drop filter (Retrofit) - ID	Low pressure drop filter in place of regular filter	02/24/2012	RMP Deemed	36.00	Scfm
Compressed Air:Outside air intake					
Outside air intake (New Construction) - ID	Permanent ductwork between compressor and outdoors for compressor intake air	07/14/2012	RMP Calculation	0.01	Compressor HP
Outside air intake (Retrofit) - ID	Permanent ductwork between compressor and outdoors for compressor intake air	02/24/2012	RMP Deemed	2,943.00	Compressor HP
Compressed Air:Receiver capacity addition					
Receiver capacity addition (New Construction) - ID	Incremental receiver capacity in excess of 2 gal/scfm of trim compressor capacity	07/14/2012	RMP Calculation	0.00	□ ai above 2 gal/scfm
Receiver capacity addition (Retrofit) - ID	Incremental receiver capacity in excess of 2 gal/scfm of trim compressor capacity	02/24/2012	RMP Deemed	125.00	□ ai above 2 gal/scfm
Compressed Air:Refrigerated cycling dryer					
Refrigerated cycling dryer (New Construction) - ID	Cycling refrigerated dryer in place of non cycling refrigerated dryer	07/14/2012	RMP Calculation	0.00	Scfm
Refrigerated cycling dryer (Retrofit) - ID	Cycling refrigerated dryer in place of non cycling refrigerated dryer	02/24/2012	RMP Deemed	86.00	Scfm
Compressed Air:VFD controlled compressor					
□ VFD controlled compressor (New Construction) - ID	□ FD compressor in place of fixed speed compressor (oil-flooded only, not oil-free)	07/14/2012	RMP Calculation		Site-specific
□ VFD controlled compressor (Retrofit) - ID	□ FD compressor in place of fixed speed compressor (oil-flooded only, not oil-free)	02/24/2012	RMP Deemed	131.00	Site-specific
Compressed Air:Zero loss condensate drain					
No-loss condensate drain in place of conventional timer drain	No-loss condensate drain in place of conventional timer drain	07/14/2012	RMP Calculation	0.13	Drain
No-loss condensate drain (New Construction) - ID	No-loss condensate drain in place of conventional timer drain	02/24/2012	RMP Deemed	1,226.00	Drain
Measure Category: Electronics					
Office Equipment:Network PC Power Management Software	Non-Residential				
Networ□ PC Power Management Software - ID	Computer network□ Power Management Software	07/14/2012	RMP Deemed	162.00	Measure
Office Equipment:Smart Plug Strip	Non-Residential				

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> ross incremental annual electric savings (MWh/yr)	Savings unit
Program: FindAnswer Express	Any plug strip that eliminates idle or stand-by power consumption of connected plug-load appliance, or timer, of an occupancy sensor, electric load sensor, or timer.	07/14/2012	RMP Deemed	100.00	Measure
Measure Category: Farm & Dairy					
Engine Block Timers: Agricultural/engine block heater timer					
Agricultural engine block heater timer (New Construction) - ID	Timer for cycling agricultural engine block heater	07/14/2012	RMP Deemed	512.00	Measure
Agricultural engine block heater timer (Retrofit) - ID	Timer for cycling agricultural engine block heater	07/14/2012	RMP Deemed	512.00	Measure
Fans:Circulating fan					
Circulating fan: 12-23□diameter (New Construction) - ID	Circulation fan, small (12-23□diameter)	07/14/2012	RMP Deemed	419.00	Measure
Circulating fan: 12-23□diameter (Retrofit) - ID	Circulation fan, small (12-23□diameter)	07/14/2012	RMP Deemed	419.00	Measure
Circulating fan: 24-35□diameter (New Construction) - ID	Circulation fan, medium (24-35□diameter)	07/14/2012	RMP Deemed	486.00	Measure
Circulating fan: 24-35□diameter (Retrofit) - ID	Circulation fan, medium (24-35□diameter)	07/14/2012	RMP Deemed	486.00	Measure
Circulating fan: 36-47□diameter (New Construction) - ID	Circulation fan, large (36-47□diameter)	07/14/2012	RMP Deemed	557.00	Measure
Circulating fan: 36-47□diameter (Retrofit) - ID	Circulation fan, large (36-47□diameter)	07/14/2012	RMP Deemed	557.00	Measure
Circulating fan: 48□diameter (New Construction) - ID	Circulation fan, extra large (48□diameter)	07/14/2012	RMP Deemed	1,460.00	Measure
Circulating fan: 48□diameter (Retrofit) - ID	Circulation fan, extra large (48□diameter)	07/14/2012	RMP Deemed	1,460.00	Measure
Fans:Controller					
Programmable ventilation controller (New Construction) - ID	Controller for automatic switching of ventilation fans	07/14/2012	RMP Deemed	1,020.00	Measure
Programmable ventilation controller (Retrofit) - ID	Controller for automatic switching of ventilation fans	07/14/2012	RMP Deemed	1,020.00	Measure
Fans:High-efficiency ventilation system					
High-efficiency ventilation system: 12-23□diameter (New Construction) - ID	Ventilation fan, small (12-23□diameter)	07/14/2012	RMP Deemed	419.00	Measure
High-efficiency ventilation system: 12-23□diameter (Retrofit) - ID	Ventilation fan, small (12-23□diameter)	07/14/2012	RMP Deemed	419.00	Measure
High-efficiency ventilation system: 24-35□diameter (New Construction) - ID	Ventilation fan, medium (24-35□diameter)	07/14/2012	RMP Deemed	750.00	Measure
High-efficiency ventilation system: 24-35□diameter (Retrofit) - ID	Ventilation fan, medium (24-35□diameter)	07/14/2012	RMP Deemed	750.00	Measure
High-efficiency ventilation system: 36-47□diameter (New Construction) - ID	Ventilation fan, large (36-47□diameter)	07/14/2012	RMP Deemed	1,500.00	Measure
High-efficiency ventilation system: 36-47□diameter (Retrofit) - ID	Ventilation fan, large (36-47□diameter)	07/14/2012	RMP Deemed	1,500.00	Measure
High-efficiency ventilation system: 48□diameter (New Construction) - ID	Ventilation fan, extra large (48□diameter)	07/14/2012	RMP Deemed	3,000.00	Measure
High-efficiency ventilation system: 48□diameter (Retrofit) - ID	Ventilation fan, extra large (48□diameter)	07/14/2012	RMP Deemed	3,000.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : FinAnswer Express		Effective Date	Energy Savings Calculation method	Cross incremental annual electric savings (kWh/yr)	Savings unit
Livestock Waterers:High-efficiency livestock waterer					
High-efficiency livestock waterer (New Construction) - ID	Insulated livestock waterer with thermostat	07/14/2012	RMP Deemed	1,209.00	Measure
High-efficiency livestock waterer (Retrofit) - ID	Insulated livestock waterer with thermostat	07/14/2012	RMP Deemed	1,209.00	Measure
Milkers:Milk Take Off					
Automatic milker take-offs (retrofit only) - ID	Automatic milker take-off	07/14/2012	RMP Deemed	992.00	Measure
Pumps:Variable Frequency Drives					
Variable frequency drive for dairy vacuum pump (retrofit only) - ID	Non-Residential Agriculture	07/14/2012	RMP Deemed	2,505.00	Hp
Refrigeration:Milk pre-cooler					
Milk pre-cooler (New Construction) - ID	Precool milk with well water prior to refrigeration	07/14/2012	RMP Calculation		Site-specific
Milk pre-cooler (Retrofit) - ID	Precool milk with well water prior to refrigeration	07/14/2012	RMP Calculation		Site-specific
Water Heating/Heat reclaimers					
Heat reclaimer (New Construction) - ID	Reclaim heat from refrigeration condenser to heat water	07/14/2012	RMP Deemed	629.00	Condensing unit kW
Heat reclaimer (Retrofit) - ID	Reclaim heat from refrigeration condenser to heat water	07/14/2012	RMP Deemed	629.00	Condensing unit kW
Measure Category : Food Service Equipment					
Cooking Equipment:Fryer					
Electric Commercial Fryer: Tier 1 - ID	High Efficiency Energy Star qualified Electric Commercial Fryer	07/14/2012	RMP Deemed	1,059.00	Measure
Electric Commercial Fryer: Tier 2 - ID	High Efficiency Energy Star qualified Electric Commercial Fryer with a Cooling Efficiency \geq 86.6%, Idle Energy Rate \leq 772 Watts	07/14/2012	RMP Deemed	2,573.00	Measure
Cooking Equipment:Griddle					
Electric Griddle: Tier 1 - ID	High Efficiency Energy Star Tier 1 qualified Electric Griddle	07/14/2012	RMP Deemed	1,886.00	Measure
Electric Griddle: Tier 2 - ID	High Efficiency Energy Star Tier 2 qualified Electric Griddle	07/14/2012	RMP Deemed	2,595.00	Measure
Cooking Equipment:Oven					
Electric Combination oven - ID	High efficiency Electric Combination oven with Heavy load Efficiency \geq 70% Idle Energy Rate \leq 3.5 kW	07/14/2012	RMP Deemed	11,757.00	Measure
Electric Convection oven - ID	High Efficiency Electric Convection oven with a cooling efficiency equal to or greater than 70%	07/14/2012	RMP Deemed	1,644.00	Measure
Cooking Equipment:Steam Cooker					
Electric Steam Cooker: 3-, 4-, 5- and 6-pans sizes - Tier 1 - ID	High Efficiency Energy Star qualified Electric Steam Cooker	07/14/2012	RMP Deemed	3,773.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program	Description	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (\$/Whr)	Savings unit
Program - FinAnswer Express					
	High Efficiency Energy Star qualified Electric Steam Cooker with a Heavy Load Efficiency equal to or greater than 65% and an Idle Energy Rate equal to or greater than 0.23 kWh	07/14/2012	RMP Deemed	4,436.00	Measure
Dishwashers: Commercial Dishwasher					
Commercial Dishwasher (Electric Water Heating Only): Multiple Tan [□] Conveyor - ID	High Efficiency Commercial Energy Star qualified Multiple Tan [□] Conveyor Dishwasher using electrically heated domestic water	07/14/2012	RMP Deemed	19,331.00	Measure
Commercial Dishwasher (Electric Water Heating Only): Single Tan [□] Conveyor - ID	High Efficiency Commercial Energy Star qualified Single Tan [□] Conveyor Dishwasher using electrically heated domestic water	07/14/2012	RMP Deemed	11,965.00	Measure
Commercial Dishwasher (Electric Water Heating Only): Stationary Rac [□] Single Tan [□] Door Type - ID	High Efficiency Commercial Energy Star qualified Stationary Rac [□] Single Tan [□] Door Type Dishwasher using electrically heated domestic water	07/14/2012	RMP Deemed	10,458.00	Measure
Commercial Dishwasher (Electric Water Heating Only): Undercounter - ID	High Efficiency Commercial Energy Star qualified Undercounter Dishwasher using electrically heated domestic water	07/14/2012	RMP Deemed	2,943.00	Measure
Dishwashers: Residential Dishwasher					
Residential Dishwasher: Sed in a Commercial Facility - ID	High Efficiency Home Energy Savings qualified Residential Dishwasher used in a commercial facility	07/14/2012	RTF Deemed	39.00	Measure
Freezers: Freezer					
Commercial Glass Door Freezer: 0 □ □ 15 - ID	High Efficiency Energy Star qualified Commercial Glass Door Freezer with interior volume$0 \times 0 \times 15$ cubic feet	07/14/2012	RMP Deemed	2,304.00	Measure
Commercial Glass Door Freezer: 15 □ □ 30 - ID	High Efficiency Energy Star qualified Commercial Glass Door Freezer with an interior volume$15 \times 0 \times 30$ cubic feet	07/14/2012	RMP Deemed	2,243.00	Measure
Commercial Glass Door Freezer: 30 □ □ 50 - ID	High Efficiency Energy Star qualified Commercial Glass Door Freezer with an interior volume$30 \times 0 \times 50$ cubic feet	07/14/2012	RMP Deemed	2,813.00	Measure
Commercial Glass Door Freezer: 50 □ □ - ID	High Efficiency Energy Star qualified Commercial Glass Door Freezer with an interior volume$50 \times 0 \times 0$ interior cubic feet	07/14/2012	RMP Deemed	6,091.00	Measure
Commercial Glass Door Freezer: Chest Configuration - ID	High Efficiency Energy Star qualified Chest Configuration Commercial Glass Door Freezer	07/14/2012	RMP Deemed	654.00	Measure
Commercial Solid Door Freezer: 0 □ □ 15 - ID	High Efficiency Energy Star qualified Commercial Solid Door Freezer with interior volume$0 \times 0 \times 15$ cubic feet	07/14/2012	RMP Deemed	761.00	Measure
Commercial Solid Door Freezer: 15 □ □ 30 - ID	High Efficiency Energy Star qualified Commercial Solid Door Freezer with an interior volume$15 \times 0 \times 30$ cubic feet	07/14/2012	RMP Deemed	978.00	Measure
Commercial Solid Door Freezer: 30 □ □ 50 - ID	High Efficiency Energy Star qualified Commercial Solid Door Freezer with an interior volume$30 \times 0 \times 50$ cubic feet	07/14/2012	RMP Deemed	1,172.00	Measure
Commercial Solid Door Freezer: 50 □ □ - ID	High Efficiency Energy Star qualified Commercial Solid	07/14/2012	RMP Deemed	1,866.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> gross incremental annual electric savings (tWh/yr)	Savings unit
Program : FinAnswer Express					
Commercial Solid Door Freezer: Chest Configuration - ID	Door Freezer with an interior volume<50 <input type="checkbox"/> <input type="checkbox"/> interior cubic feet	07/14/2012	RMP Deemed	990.00	Measure
Holding Cabinet/Insulated Holding Cabinet					
Electric Insulated Holding Cabinet 1/2 Size - Tier 2 - ID	High Efficiency Energy Star qualified Chest Configuration Commercial Solid Door Freezer.	07/14/2012	RMP Deemed	2,803.00	Measure
Electric Insulated Holding Cabinet 3/4 Size - Tier 2 - ID	High Efficiency Energy Star qualified 1/2 Size Electric Insulated Holding Cabinet.	07/14/2012	RMP Deemed	4,205.00	Measure
Electric Insulated Holding Cabinet: Full Size - Tier 2 - ID	High Efficiency Energy Star qualified Full Size Electric Insulated Holding Cabinet	07/14/2012	RMP Deemed	7,008.00	Measure
Ice Machine/Ice Machine					
(Ice Machines (Air-Cooled Only)). Tier 1: Harvest Rate <input type="checkbox"/> 500 lbs/day - ID	High Efficiency Energy Star qualified Ice Machine with an ice harvest rate of less than 500 lbs./day	07/14/2012	RMP Deemed	305.00	Measure
(Ice Machines (Air-Cooled Only)). Tier 1: Harvest Rate <input type="checkbox"/> 500 lbs/day - ID	High Efficiency Energy Star qualified Ice Machine with a ice harvest rate of equal to or greater than 500 lbs./ day,	07/14/2012	RMP Deemed	1,102.00	Measure
(Ice Machines (Air-Cooled Only)). Tier 2: Harvest Rate <input type="checkbox"/> 500 lbs/day - ID	High Efficiency CEE Tier 3 qualified Ice Machine with an ice harvest rate less than 500 lbs/day	07/14/2012	RMP Deemed	632.00	Measure
(Ice Machines (Air-Cooled Only)). Tier 2: Harvest Rate <input type="checkbox"/> 500 lbs/day - ID	High Efficiency CEE Tier 3 qualified Ice Machine with an ice harvest rate of equal to or greater than 500 lbs/day	07/14/2012	RMP Deemed	1,661.00	Measure
Lighting:Refrigerated Case Lighting					
REF Case Lighting (Retrofit <input type="checkbox"/> only) - ID	LED replacing fluorescent lamp in refrigerated cases.	07/14/2012	RMP Deemed	105.00	Linear ft.
Refrigerated Case <input type="checkbox"/> occupancy Sensor (Retrofit <input type="checkbox"/> only) - ID	<input type="checkbox"/> occupancy Sensor installed in existing refrigerated case with LED lighting	07/14/2012	RMP Deemed	21.00	Linear ft.
Refrigerators:Refrigerator					
Commercial <input type="checkbox"/> Glass Door Refrigerator: 0 <input type="checkbox"/> <input type="checkbox"/> 15 - ID	High Efficiency Energy Star qualified Commercial Glass Door Refrigerator with Interior Volume<15 cubic feet	07/14/2012	RMP Deemed	439.00	Measure
Commercial <input type="checkbox"/> Glass Door Refrigerator: 15 <input type="checkbox"/> <input type="checkbox"/> 30 - ID	High Efficiency Energy Star qualified Commercial Glass Door Refrigerator with an interior volume<15 <input type="checkbox"/> <input type="checkbox"/> 30 cubic feet	07/14/2012	RMP Deemed	555.00	Measure
Commercial <input type="checkbox"/> Glass Door Refrigerator: 30 <input type="checkbox"/> <input type="checkbox"/> 50 - ID	High Efficiency Energy Star qualified Commercial Glass Door Refrigerator with an interior volume<30 <input type="checkbox"/> <input type="checkbox"/> 50 cubic feet	07/14/2012	RMP Deemed	386.00	Measure
Commercial <input type="checkbox"/> Glass Door Refrigerator: 50 <input type="checkbox"/> <input type="checkbox"/> - ID	High Efficiency Energy Star qualified Commercial Glass Door Refrigerator with an interior volume<50 <input type="checkbox"/> <input type="checkbox"/> interior cubic feet	07/14/2012	RMP Deemed	532.00	Measure
Commercial <input type="checkbox"/> Glass Door Refrigerator: Chest Configuration - ID	High Efficiency Energy Star qualified Chest Configuration Commercial Glass Door Refrigerator	07/14/2012	RMP Deemed	365.00	Measure
Commercial Solid Door Refrigerator: 0 <input type="checkbox"/> <input type="checkbox"/> 15 - ID	High Efficiency Energy Star qualified Commercial Solid Door Refrigerator with Interior Volume<15 cubic feet	07/14/2012	RMP Deemed	208.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> ross incremental annual electric savings (\$/Wh/yr)	Savings unit
Program: FinnAnswer Express					
Commercial Solid Door Refrigerator: 15 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 30 - ID	High Efficiency Energy Star qualified Commercial Solid Door Refrigerator with an interior volume: <input type="checkbox"/> 15 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 30 cubic feet	07/14/2012	RMP Deemed	317.00	Measure
Commercial Solid Door Refrigerator: 30 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 50 - ID	High Efficiency Energy Star qualified Commercial Solid Door Refrigerator with an interior volume: <input type="checkbox"/> 30 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 50 cubic feet	07/14/2012	RMP Deemed	428.00	Measure
Commercial Solid Door Refrigerator: 50 <input type="checkbox"/> <input type="checkbox"/> - ID	High Efficiency Energy Star qualified Commercial Solid Door Refrigerator with an interior volume: <input type="checkbox"/> 50 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> interior cubic feet	07/14/2012	RMP Deemed	550.00	Measure
Commercial Solid Door Refrigerator: Chest Configuration - ID	High Efficiency Energy Star qualified Chest Configuration Commercial Solid Door Refrigerator	07/14/2012	RMP Deemed	365.00	Measure
Refrigerator: Residential - used in Commercial Facility - ID	High Efficiency Home Energy Savings qualified Residential Refrigerator	07/14/2012	RMP Deemed	65.00	Measure
Measure Category: HVAC					
Controls and Thermostats:Controller					
<input type="checkbox"/> occupancy Based PTHP/PTAC control - ID	occupancy based PTHP/PTAC control, all sites with no prior occupancy based control, retrofit only	07/14/2012	RMP Deemed	446.00	Measure
Controls and Thermostats:Thermostat					
365/366 day Programmable Thermostat - ID	365 day Programmable thermostat	07/14/2012	RMP Deemed	1,210.00	Measure
Cooling:Chiller					
Chillers - ID	High Efficiency chiller	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Cooling:Evaporative Cooler					
Evaporative Cooling - ID	Indirect or Direct Evaporative Cooling	07/14/2012	RMP Deemed	0.39	Cfm
Indirect-Direct Evaporative cooling	Indirect-direct Evaporative cooling	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Cooling:Package Terminal Air Conditioners (PTAC)					
PTAC: <input type="checkbox"/> 8,000 Btu/hr: Single package - ID	High efficiency package terminal air conditioners <input type="checkbox"/> 8,000 Btu/hr, Single package.	07/14/2012	RMP Deemed	21.00	Ton
PTAC: <input type="checkbox"/> 13,500 Btu/hr: Single package - ID	High efficiency package terminal air conditioners <input type="checkbox"/> 13,500 Btu/hr, Single package.	07/14/2012	RMP Deemed	27.00	Ton
PTAC: <input type="checkbox"/> 8,000 Btu/hr and <input type="checkbox"/> 10,500 Btu/hr: Single package - ID	High efficiency package terminal air conditioners <input type="checkbox"/> 8,000 Btu/hr and <input type="checkbox"/> 10,500 Btu/hr, Single package.	07/14/2012	RMP Deemed	45.00	Ton
PTAC: <input type="checkbox"/> 10,500 Btu/hr and <input type="checkbox"/> 13,500 Btu/hr: Single package - ID	High efficiency package terminal air conditioners <input type="checkbox"/> 10,500 Btu/hr and <input type="checkbox"/> 13,500 Btu/hr, Single package.	07/14/2012	RMP Deemed	28.00	Ton
Cooling:Room Air Conditioner					
Room Air Conditioner - ID	High Efficiency Room Air Conditioners	07/14/2012	RMP Deemed	41.50	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : FinAnswer Express	Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (\$/Wh/yr)	Savings unit
Cooling:Unitary Commercial Air Conditioners, Air-Cooled				
Non-Residential				
Unitary CAC (Air): <input type="checkbox"/> 240,000 Btu/hr and <input type="checkbox"/> 760,000 Btu/hr Split system and single package - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 240,000 Btu/hr and <input type="checkbox"/> 760,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (single phase); Split system and single package - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, single package systems, single phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (single phase); Single package - CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, single package systems, single phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (single phase); Split system - CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 1 - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, Split systems, single phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (single phase); Split system - CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, Split systems, single phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (three phase); Split system and single package - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, single package systems, three phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (three phase); Single package - CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, single package systems, three phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (three phase); Split system - CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 1 - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, Split systems, three phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 65,000 Btu/hr (three phase); Split system - CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 65,000 Btu/hr, Split systems, three phase power	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr Split system and single package - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr Single package- CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr Split system - CEE Tier 1 - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr Split system - CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific
Unitary CAC (Air): <input type="checkbox"/> 240,000 Btu/hr and <input type="checkbox"/> 760,000 Btu/hr Split system and single package - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled <input type="checkbox"/> 240,000 Btu/hr and <input type="checkbox"/> 760,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator Site-specific

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	□ gross incremental annual electric savings (WMWhr)	Savings unit
Program : FinAnswer Express					
Utility CAC (Air): □ 240,000 Btu/hr and □ 760,000 Btu/hr Split system - CEE Tier 1 - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled □ 240,000 Btu/hr and □ 760,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 240,000 Btu/hr and □ 760,000 Btu/hr Split system - CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled □ 240,000 Btu/hr and □ 760,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 65,000 Btu/hr and □ 135,000 Btu/hr Split system and single package - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled □ 65,000 Btu/hr and □ 135,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 65,000 Btu/hr and □ 135,000 Btu/hr Single package- CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled □ 65,000 Btu/hr and □ 135,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 65,000 Btu/hr and □ 135,000 Btu/hr Split system - CEE Tier 1 - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled □ 65,000 Btu/hr and □ 135,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 65,000 Btu/hr and □ 135,000 Btu/hr Split system - CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled □ 65,000 Btu/hr and □ 135,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 760,000 Btu/hr Split system - CEE Tier 1 - ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled □ 760,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 760,000 Btu/hr Split system - CEE Tier 2 - ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled □ 760,000 Btu/hr, Split systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 760,000 Btu/hr Single package- CEE Tier 1 - ID ID	CEE Tier 1, High Efficiency Air Conditioner Air Cooled □ 760,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Utility CAC (Air): □ 760,000 Btu/hr Single package- CEE Tier 2 - ID ID	CEE Tier 2, High Efficiency Air Conditioner Air Cooled □ 760,000 Btu/hr, single package systems	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
Cooling:Utility Commercial Air Conditioners, Water and Non-Residential					
Utility CAC (Water): □ 65,000 Btu/hr: Split system and single package - ID	High Efficiency Air Conditioner Water and Evaporatively Cooled □ 65,000 Btu/hr, Split or single package systems	07/14/2012	RMP Deemed	54.00	Ton
Utility CAC (Water): □ 135,000 Btu/hr and □ 240,000 Btu/hr Split system and single package - ID	High Efficiency Air Conditioner Water and Evaporatively Cooled □ 135,000 Btu/hr and □ 240,000 Btu/h, Split or single package systems	07/14/2012	RMP Deemed	149.00	Ton
Utility CAC (Water): □ 240,000 Btu/hr: Split system and single package - ID	High Efficiency Air Conditioner Water and Evaporatively Cooled □ 240,000, Split or single package systems	07/14/2012	RMP Deemed	223.00	Ton
Utility CAC (Water): □ 65,000 Btu/hr and □ 135,000 Btu/hr Split system and single package - ID	High Efficiency Air Conditioner Water and Evaporatively Cooled □ 65,000 Btu/hr and □ 135,000 Btu/hr, Split or single package systems	07/14/2012	RMP Deemed	135.00	Ton
Heat Pump:Heat Pump - Ground Source	Non-Residential				
HP - □ round (Heating □ Cooling Mode): Closed Loop - ID	□ round Source Heat Pump Loop (closed loop)	07/14/2012	RMP Deemed	73.00	Ton

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program • FinAnswer Express		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> Gross incremental annual electric savings (TWh/yr)	Savings unit
HP - <input type="checkbox"/> round (Heating <input type="checkbox"/> Cooling Mode); Heat Pump, <input type="checkbox"/> round Source - ID	High Efficiency heat pumps (<input type="checkbox"/> round source or groundwater)	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - <input type="checkbox"/> round (Heating <input type="checkbox"/> Cooling Mode); <input type="checkbox"/> open loop - ID	<input type="checkbox"/> roundwater Source Heat Pump <input type="checkbox"/> loop (open loop)	07/14/2012	RMP Deemed	589.00	Ton
Heat Pump/Heat Pump - Packaged Terminal					
PTHP (Heating <input type="checkbox"/> Cooling Mode); <input type="checkbox"/> 8,000 Btu/hr; Single package - ID	High Efficiency package terminal heat pumps <input type="checkbox"/> 8,000 Btu/hr; Single package	07/14/2012	RMP Deemed	298.00	Ton.
PTHP (Heating <input type="checkbox"/> Cooling Mode); <input type="checkbox"/> 13,500 Btu/hr; Single package - ID	High Efficiency package terminal heat pumps <input type="checkbox"/> 13,500 Btu/hr; Single package	07/14/2012	RMP Deemed	325.00	Ton
PTHP (Heating <input type="checkbox"/> Cooling Mode); <input type="checkbox"/> 8,000 Btu/hr and <input type="checkbox"/> 10,500 Btu/hr; Single package - ID	High Efficiency package terminal heat pumps <input type="checkbox"/> 8,000 Btu/hr and <input type="checkbox"/> 10,500 Btu/hr; Single package	07/14/2012	RMP Deemed	293.00	Ton
PTHP (Heating <input type="checkbox"/> Cooling Mode); <input type="checkbox"/> 10,500 Btu/hr and <input type="checkbox"/> 13,500 Btu/hr; Single package - ID	High Efficiency package terminal heat pumps <input type="checkbox"/> 10,500 Btu/hr and <input type="checkbox"/> 13,500 Btu/hr; Single package	07/14/2012	RMP Deemed	158.00	Ton
Heat Pump/Heat Pumps - Air-Cooled					
HP - Air (Cooling Mode); <input type="checkbox"/> 65,000 Btu/hr (single phase); Split system and cooled <input type="checkbox"/> 65,000 Btu/hr; Single phase	CEE Tier 1, High Efficiency Package system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; Single phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Cooling Mode); <input type="checkbox"/> 65,000 Btu/hr (three phase); Split system and single package - ID	CEE Tier 1, High Efficiency Package system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Cooling Mode); <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr	CEE Tier 1, High Efficiency Package system heat pump air cooled <input type="checkbox"/> 135,000 Btu/hr and <input type="checkbox"/> 240,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Cooling Mode); <input type="checkbox"/> 240,000 Btu/hr : Split system and single package - ID	CEE Tier 1, High Efficiency Package system heat pump air cooled <input type="checkbox"/> 240,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Cooling Mode); <input type="checkbox"/> 65,000 Btu/hr and <input type="checkbox"/> 135,000 Btu/hr	CEE Tier 1, High Efficiency Package system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr and <input type="checkbox"/> 135,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Heating Mode); <input type="checkbox"/> 65,000 Btu/hr (single phase); Split system - CEE Tier 2 - ID	CEE Tier 2, High Efficiency split system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Heating Mode); <input type="checkbox"/> 65,000 Btu/hr (single phase)	CEE Tier 2, High Efficiency Package system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Heating Mode); <input type="checkbox"/> 65,000 Btu/hr (single phase)	CEE Tier 2, High Efficiency split system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Heating Mode); <input type="checkbox"/> 65,000 Btu/hr (three phase)	CEE Tier 1, High Efficiency split system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Heating Mode); <input type="checkbox"/> 65,000 Btu/hr (three phase)	CEE Tier 1, High Efficiency split system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; Single phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific
HP - Air (Heating Mode); <input type="checkbox"/> 65,000 Btu/hr (three phase)	CEE Tier 1, High Efficiency split system heat pump air cooled <input type="checkbox"/> 65,000 Btu/hr; Single phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator	Site-specific

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program: FirmAnswer Express	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (MWh/yr)	Savings unit
HP - Air (Heating Mode): <input checked="" type="checkbox"/> 135,000 Btu/hr 17°F db/15°F wb outdoor air - ID	CEE Tier 2, High Efficiency split system heat pump air cooled <input checked="" type="checkbox"/> 65,000 Btu/hr, Single phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator
HP - Air (Heating Mode): <input checked="" type="checkbox"/> 135,000 Btu/hr 47°F db/43°F wb outdoor air - ID	CEE Tier 1, High Efficiency split system heat pump air cooled <input checked="" type="checkbox"/> 240,000 Btu/hr, three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator
HP - Air (Heating Mode): <input checked="" type="checkbox"/> 65,000 Btu/hr and <input checked="" type="checkbox"/> 135,000 Btu/hr 17°F db/15°F wb outdoor air - ID	CEE Tier 1, High Efficiency split system heat pump air cooled <input checked="" type="checkbox"/> 135,000 Btu/hr and <input checked="" type="checkbox"/> 240,000, three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator
HP - Air (Heating Mode): <input checked="" type="checkbox"/> 65,000 Btu/hr and <input checked="" type="checkbox"/> 135,000 Btu/hr 47°F db/43°F wb outdoor air - ID	CEE Tier 1, High Efficiency split system heat pump air cooled <input checked="" type="checkbox"/> 65,000 Btu/hr and <input checked="" type="checkbox"/> 35,000 Btu/hr, three phase	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator
Heat Pump;Heat Pumps - Water-Source	Non-Residential			
HP - Water (Cooling Mode): <input checked="" type="checkbox"/> 135,000 Btu/hr; 86°F Entering Water - ID	CEE Tier 1 High Efficiency water source heat pumps	07/14/2012	RMP Calculation	Savings vary by install configuration – see attached calculator
Motors;Variable-Frequency Drives (HVAC fans and pumps)	Non-Residential			
<input checked="" type="checkbox"/> Variable-Frequency Drives (HVAC fans and pumps); <input checked="" type="checkbox"/> 100 horsepower: HVAC fans - ID	Variable Frequency Drive controlling an HVAC applied fan	07/14/2012	RMP Deemed	1,184.00
<input checked="" type="checkbox"/> Variable-Frequency Drives (HVAC fans and pumps); <input checked="" type="checkbox"/> 100 horsepower: HVAC pumps - ID	Variable Frequency Drive controlling an HVAC applied pump	07/14/2012	RMP Deemed	919.00
Measure Category: Lighting	Non-Residential			
Controls;Lighting Control - New Construction/Major				
Lighting Control - New Construction/Major Renovation - ID	Integral occupancy sensor which must control a linear fluorescent, induction, or LED fixture. Sensor must be installed on a continuous duty light operating 8760 hours per year.		RMP Deemed	Measure
Exterior Lighting;cFL	Non-Residential			
CFL Wall Pac - New Construction/Major Renovation - ID	New construction /major renovation exterior LED Wall pac		RMP Deemed	342.00
Exterior Lighting;Induction Fixture	Non-Residential			
Induction Fixture - New Construction/Major Renovation - ID	New construction/major renovation exterior induction fixture		RMP Deemed	1,080.00
Exterior Lighting;LED	Non-Residential			
<input checked="" type="checkbox"/> ED <input checked="" type="checkbox"/> Outdoor Area <input checked="" type="checkbox"/> Roadway - New Construction/Major Renovation - ID	New construction/major renovation exterior LED outdoor Area and Roadway fixture		RMP Deemed	485.00
<input checked="" type="checkbox"/> ED Channel Letter Sign - Retrofit - ID	LED replacing existing neon or fluorescent lamps in a channel letter sign	07/14/2012	RMP Deemed	14.00
				□near ft.

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : FinAnswer Express	Effective Date	Energy Savings Calculation method	<input type="checkbox"/> Gross incremental annual electric savings (MWh/yr)	Savings unit
□ED Marquee/Cabinet Sign - Retrofit - ID	07/14/2012	RMP Deemed	21.00	linear ft.
□ED Message Center Sign - Retrofit - ID	07/14/2012	RMP Deemed	47.00	Measure
Measure Category : Motors				
Electronically Commutated Motor-Electronically Commutated				
Electronically Commutated Motor: □ 1 horsepower: H _{AC} application - ID	07/14/2012	RMP Deemed	2,895.00	Hp
Electronically Commutated Motor: □ 1 horsepower: Refrigeration application - ID	07/14/2012	RMP Deemed	9.30	Watt
Green Motor Rewinds: Green Motor Rewinds (Agriculture)				
□ Green Motor Rewinds (Agriculture): 100 hp - ID	07/14/2012	RMP Deemed	585.00	Measure
□ Green Motor Rewinds (Agriculture): 125 hp - ID	07/14/2012	RMP Deemed	727.00	Measure
□ Green Motor Rewinds (Agriculture): 15 hp - ID	07/14/2012	RMP Deemed	145.00	Measure
□ Green Motor Rewinds (Agriculture): 150 hp - ID	07/14/2012	RMP Deemed	867.00	Measure
□ Green Motor Rewinds (Agriculture): 20 hp - ID	07/14/2012	RMP Deemed	192.00	Measure
□ Green Motor Rewinds (Agriculture): 200 hp - ID	07/14/2012	RMP Deemed	1,143.00	Measure
□ Green Motor Rewinds (Agriculture): 25 hp - ID	07/14/2012	RMP Deemed	237.00	Measure
□ Green Motor Rewinds (Agriculture): 250 hp - ID	07/14/2012	RMP Deemed	1,434.00	Measure
□ Green Motor Rewinds (Agriculture): 30 hp - ID	07/14/2012	RMP Deemed	254.00	Measure
□ Green Motor Rewinds (Agriculture): 300 hp - ID	07/14/2012	RMP Deemed	1,718.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program	Measure Description	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (¢/Wh/yr)	Savings unit
Program: FinAnswer Express					
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 350 hp - ID	350 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	2,005.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 40 hp - ID	40 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	297.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 400 hp - ID	400 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	2,285.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 450 hp - ID	450 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	2,563.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 50 hp - ID	50 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	322.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 500 hp - ID	500 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	2,848.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 60 hp - ID	60 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	328.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Agriculture): 75 hp - ID	75 hp <input type="checkbox"/> Green Motor Rewind for motor used in agriculture, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	341.00	Measure
Green Motor Rewinds:Green Motor Rewinds (Industrial)					
<input type="checkbox"/> Green Motor Rewinds (Industrial): 100 hp - ID	100 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	1,558.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 125 hp - ID	125 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	1,891.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 15 hp - ID	15 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	274.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 150 hp - ID	150 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	2,254.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 20 hp - ID	20 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	363.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 200 hp - ID	200 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	2,987.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> Gross incremental annual electric savings (LWh/yr)	Savings unit
Program : FinAnswer Express					
<input type="checkbox"/> Green Motor Rewinds (Industrial): 25 hp - ID	25 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	535.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 250 hp - ID	250 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	4,397.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 30 hp - ID	30 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	575.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 300 hp - ID	300 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	5,263.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 350 hp - ID	350 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	6,147.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 40 hp - ID	40 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	672.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 400 hp - ID	400 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	7,005.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 450 hp - ID	450 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	7,859.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 50 hp - ID	50 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	729.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 500 hp - ID	500 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	8,732.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 60 hp - ID	60 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	971.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Industrial): 75 hp - ID	75 hp <input type="checkbox"/> Green Motor Rewind for motor used in an industrial application, returning motor to best possible efficiency using controlled rewind process.	07/14/2012	RMP Deemed	1,009.00	Measure
Green Motor Rewinds:Green Motor Rewinds (Large)					
<input type="checkbox"/> Green Motor Rewinds (Large): 1000 hp - ID	1000 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	20,754.00	Measure
<input type="checkbox"/> Green Motor Rewinds (Large): 1250 hp - ID	1250 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	26,695.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program / Measure	Description	Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (kWh/yr)	Savings unit
Green Motor Rewinds (Large): 1500 hp - ID	1500 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	31,867.00	Measure
Green Motor Rewinds (Large): 1750 hp - ID	1750 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	37,035.00	Measure
Green Motor Rewinds (Large): 2000 hp - ID	2000 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	42,355.00	Measure
Green Motor Rewinds (Large): 2250 hp - ID	2250 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	47,468.00	Measure
Green Motor Rewinds (Large): 2500 hp - ID	2500 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	52,450.00	Measure
Green Motor Rewinds (Large): 3000 hp - ID	3000 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	63,071.00	Measure
Green Motor Rewinds (Large): 3500 hp - ID	3500 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	73,392.00	Measure
Green Motor Rewinds (Large): 4000 hp - ID	4000 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	83,919.00	Measure
Green Motor Rewinds (Large): 4500 hp - ID	4500 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	94,213.00	Measure
Green Motor Rewinds (Large): 5000 hp - ID	5000 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	104,681.00	Measure
Green Motor Rewinds (Large): 600 hp - ID	600 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	12,584.00	Measure
Green Motor Rewinds (Large): 700 hp - ID	700 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	14,682.00	Measure
Green Motor Rewinds (Large): 800 hp - ID	800 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	16,708.00	Measure
Green Motor Rewinds (Large): 900 hp - ID	900 hp <input type="checkbox"/> Green Motor Rewind, Large motor hp, returning motor to best possible efficiency using controlled rewind process	07/14/2012	RMP Deemed	18,737.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Home Energy Savings	Measure Category : Appliances	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (MWh/yr)	Savings unit
Clothes Washers:Clothes Washer (2.2 + MEF)					
Clothes Washer: MEF 2.2: CEE Tier 2+: Electric DHW □ Electric Dryer - ID					
Clothes Washer: MEF 2.2: CEE Tier 2+: Electric DHW □ as Dyer - ID	Energy efficient clothes washers	08/20/2012	RTF Deemed	191.00	Measure
Clothes Washer: MEF 2.2: CEE Tier 2+: □ as DHW □ Electric Dryer - ID	Energy efficient clothes washers	08/20/2012	RTF Deemed	88.30	Measure
Clothes Washer: MEF 2.2: CEE Tier 2+: □ as DHW □ as Dyer - ID	Energy efficient clothes washers	08/20/2012	RTF Deemed	106.00	Measure
Clothes Washer: MEF 2.2: CEE Tier 2+: □ as DHW □ as Dyer - ID	Energy efficient clothes washers	08/20/2012	RTF Deemed	3.21	Measure
Dishwashers:Dishwasher					
Dishwasher: CEE Tier 1 (.75 EF) Electric DHW - ID	Energy efficient dishwashers	08/20/2012	RTF Deemed	36.00	Measure
Dishwasher: CEE Tier 1 (.75 EF) □ as DHW - ID	Energy efficient dishwashers	08/20/2012	RTF Deemed	47.00	Measure
Freezers:Freezer Tier 3					
Freezer: Tier 3 (20□ to 25□ more efficient than federal standard) - Any Bright Freezer - ID	Energy efficient freezers	08/20/2012	RTF Deemed	94.79	Measure
Freezer: Tier 3 (20□ to 25□ more efficient than federal standard) - Chest, Any Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	62.26	Measure
Freezer: Tier 3 (20□ to 25□ more efficient than federal standard) - Bright, Automatic Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	105.42	Measure
Freezer: Tier 3 (20□ to 25□ more efficient than federal standard) - Bright, Manual Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	74.89	Measure
Freezers:Freezer Tier 4					
Freezer: Tier 4 (25□ to 30□ more efficient than federal standard) - Any Bright Freezer - ID	Energy efficient freezers	08/20/2012	RTF Deemed	122.07	Measure
Freezer: Tier 4 (25□ to 30□ more efficient than federal standard) - Chest, Any Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	75.26	Measure
Freezer: Tier 4 (25□ to 30□ more efficient than federal standard) - Bright, Automatic Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	137.14	Measure
Freezer: Tier 4 (25□ to 30□ more efficient than federal standard) - Bright, Manual Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	93.88	Measure
Freezers:Freezer Tier 5					
Freezer: Tier 5 (30□ to 35□ more efficient than federal standard) - Any Bright Freezer - ID	Energy efficient freezers	08/20/2012	RTF Deemed	142.97	Measure
Freezer: Tier 5 (30□ to 35□ more efficient than federal standard) - Chest, Any Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	94.76	Measure
Freezer: Tier 5 (30□ to 35□ more efficient than federal standard) - Bright, Automatic Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	158.89	Measure
Freezer: Tier 5 (30□ to 35□ more efficient than federal standard) - Bright, Manual Defrost - ID	Energy efficient freezers	08/20/2012	RTF Deemed	113.19	Measure
Refrigerators:Refrigerator CEE Tier 3					

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program: Home Energy Savings		Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (GWh/yr)	Savings unit
CEE Tier 3 Refrigerator - Bottom Freezer w/o ice thru door - ID	Energy efficient refrigerators	08/20/2012	RTF Deemed	74.30	Measure
CEE Tier 3 Refrigerator - Bottom Freezer w/o ice thru door - ID	Energy efficient refrigerators	08/20/2012	RTF Deemed	90.15	Measure
CEE Tier 3 Refrigerator - Side-by-Side w/o ice thru door - ID	Energy efficient refrigerators	08/20/2012	RTF Deemed	91.07	Measure
CEE Tier 3 Refrigerator - Side-by-Side w/o ice thru door - ID	Energy efficient refrigerators	08/20/2012	RTF Deemed	106.92	Measure
CEE Tier 3 Refrigerator - Top Freezer w/o ice thru door - ID	Energy efficient refrigerators	08/20/2012	RTF Deemed	84.72	Measure
CEE Tier 3 Refrigerator - Top Freezer w/o ice thru door - ID	Energy efficient refrigerators	08/20/2012	RTF Deemed	84.82	Measure
Measure Category : Building Shell					
Residential					
Installed Insulation - Attic - Electric (R-49) - Electric FAF Heating System - ID	Install attic insulation-Contractor	08/20/2012	RMP Deemed	1.35	Sq. ft.
Installed Insulation - Attic - Electric (R-49) - Heat Pump Heating System - ID	Install attic insulation-Contractor	08/20/2012	RMP Deemed	1.00	Sq. ft.
Installed Insulation - Attic - Electric (R-49) - Ductless Heating System - ID	Install attic insulation-Contractor	08/20/2012	RMP Deemed	1.19	Sq. ft.
Installed Insulation - Attic - <input type="checkbox"/> as Heat w/CAC (R-49) - ID	Install attic insulation-Contractor	08/20/2012	RMP Deemed	0.01	Sq. ft.
Insulation - Attic - <input type="checkbox"/> as Self Install - ID	Install attic insulation -self install	08/20/2012	RMP Deemed	0.01	Sq. ft.
Insulation - Attic -Electric- Self Install - Electric FAF Heating System - ID	Install attic insulation -self install	08/20/2012	RMP Deemed	1.35	Sq. ft.
Insulation - Attic -Electric- Self Install - Heat Pump Heating System - ID	Install attic insulation -self install	08/20/2012	RMP Deemed	1.00	Sq. ft.
Insulation - Attic -Electric- Self Install - Ductless Heating System - ID	Install attic insulation -self install	08/20/2012	RMP Deemed	1.19	Sq. ft.
Insulation: Floor Insulation					
Residential					
Installed Insulation - Floor - Electric FAF Heating System - ID	Install floor insulation -Contractor	08/20/2012	RMP Deemed	2.42	Sq. ft.
Installed Insulation - Floor - Heat Pump Heating System - ID	Install floor insulation -Contractor	08/20/2012	RMP Deemed	1.32	Sq. ft.
Installed Insulation - Floor - Self Install - Electric FAF Heating System - ID	Install floor insulation -Self install	08/20/2012	RMP Deemed	2.42	Sq. ft.
Installed Insulation - Floor - Self Install - Heat Pump Heating System - ID	Install floor insulation -Self install	08/20/2012	RMP Deemed	1.32	Sq. ft.
Installed Insulation - Floor - Self Install - Ductless Heating System - ID	Install floor insulation -Self install	08/20/2012	RMP Deemed	2.31	Sq. ft.
Installed Insulation - Floor - Ductless Heating System - ID	Install floor insulation -Contractor	08/20/2012	RMP Deemed	2.31	Sq. ft.
Insulation: Wall Insulation					
Residential					
Installed Insulation - Wall - Electric FAF Heating System - ID	Install wall insulation- Contractor	08/20/2012	RMP Deemed	2.93	Sq. ft.
Installed Insulation - Wall - <input type="checkbox"/> as Heat w/CAC - ID	Install wall insulation- Contractor	08/20/2012	RMP Deemed	0.01	Sq. ft.
Installed Insulation - Wall - Heat Pump Heating System - ID	Install wall insulation- Contractor	08/20/2012	RMP Deemed	2.12	Sq. ft.

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Home Energy Savings		Effective Date	Energy Savings Calculation method	<input type="checkbox"/> ross incremental annual electric savings (\$/Wh/yr)	Savings unit
Installed Insulation - Wall - Residential Heating System - ID	Install wall insulation- Contractor	08/20/2012	RMP Deemed	2.55	Sq. ft.
Windows: Windows Tier 1	Residential				
Windows Tier 1 (<input type="checkbox"/> -0.30): Electric FAF Heating System - ID	Energy efficient windows-Tier 1	08/20/2012	RMP Deemed	2.50	Sq. ft.
Windows Tier 1 (<input type="checkbox"/> -0.30): Heat Pump Heating System - ID	Energy efficient windows-Tier 1	08/20/2012	RMP Deemed	1.81	Sq. ft.
Windows Tier 1 (<input type="checkbox"/> -0.30): Residential Heating System - ID	Energy efficient windows-Tier 1	08/20/2012	RMP Deemed	2.18	Sq. ft.
Windows: Windows Tier 2	Residential				
Windows Tier 2 (<input type="checkbox"/> -0.22): Electric FAF Heating System - ID	Energy efficient windows-Tier 2	08/20/2012	RMP Deemed	6.20	Sq. ft.
Windows Tier 2 (<input type="checkbox"/> -0.22): Heat Pump Heating System - ID	Energy efficient windows-Tier 2	08/20/2012	RMP Deemed	4.54	Sq. ft.
Windows Tier 2 (<input type="checkbox"/> -0.22): Residential Heating System - ID	Energy efficient windows-Tier 2	08/20/2012	RMP Deemed	5.39	Sq. ft.
Measure Category : HVAC	Residential				
Certification: Quality Installation	Install new heat pump with best practices installation and proper sealing	08/20/2012	RTF Deemed	2,694.00	Measure
Cooling: Central Air Conditioner	Residential				
Central Air Conditioning <input type="checkbox"/> 15-SEER/12.5 EER - ID	Energy efficient central air conditioning	08/20/2012	RMP Deemed	97.70	Measure
SuperBundle: <input type="checkbox"/> as Furnace w/A/C Bundle - ID	Combine attic insulation, <input type="checkbox"/> AFE gas furnace with ECM blower, duct insulation <input type="checkbox"/> sealing	08/20/2012	RMP Deemed	0.00	Sq. ft.
Cooling: Evaporative Cooler	Residential				
Evaporative Cooling - Permanent - ID	Permanently installed evaporative cooling system	08/20/2012	RMP Deemed	427.00	Measure
Evaporative Cooling - Portable - ID	Portable evaporative cooling system	08/20/2012	RMP Deemed	104.00	Measure
Cooling: Room Air Conditioner	Residential				
Room AC - ID	Energy efficient room air conditioners	08/20/2012	RMP Deemed	39.00	Measure
Ducting: Duct Sealing and/or Insulation	Residential				
Duct Sealing <input type="checkbox"/> Insulation - Electric FAF w CAC - ID	Seal and insulate existing duct work	08/20/2012	RTF Deemed	3,351.00	Sq. ft.
Duct Sealing <input type="checkbox"/> Insulation - Electric FAF w/o CAC - ID	Seal and insulate existing duct work	08/20/2012	RTF Deemed	3,251.00	Sq. ft.
Duct Sealing <input type="checkbox"/> Insulation - Electric Heat Pump - ID	Seal and insulate existing duct work	08/20/2012	RTF Deemed	4,269.00	Sq. ft.
Duct Sealing <input type="checkbox"/> Insulation - <input type="checkbox"/> as FAF w/ CAC - ID	Seal and insulate existing duct work	08/20/2012	RTF Deemed	100.00	Sq. ft.
Duct Sealing <input type="checkbox"/> Pre-Insulated Ducts: Duct Sealing <input type="checkbox"/> Insulation - Electric FAF w/ CAC - ID	Seal existing duct work ⁺ Pre-insulated ducts	08/20/2012	RTF Deemed	2,177.00	Sq. ft.
Duct Sealing <input type="checkbox"/> Pre-Insulated Ducts: Duct Sealing <input type="checkbox"/> Insulation - Electric FAF w/o CAC - ID	Seal existing duct work ⁺ Pre-insulated ducts	08/20/2012	RTF Deemed	2,138.00	Sq. ft.
Duct Sealing <input type="checkbox"/> Pre-Insulated Ducts: Duct Sealing <input type="checkbox"/> Insulation - Electric Heat Pump - ID	Seal existing duct work ⁺ Pre-insulated ducts	08/20/2012	RTF Deemed	2,059.00	Sq. ft.

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Home Energy Savings	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (kWh/yr)	Savings unit
Residential				
Heat Pump:Heat Pump - Air Source				
Heat Pump Conversion to 8.5 HSPF (Tier 1); Tier 1 Convert EFAF W/CAC	08/20/2012	RTF Deemed	5,182.00	Measure
Convert electric forced air furnace to air source heat pump to 8.5 HSPF ASHP - ID	08/20/2012	RTF Deemed	4,672.00	Measure
Heat Pump Conversion to 8.5 HSPF (Tier 1); Tier 1 Convert EFAF W/CAC to 8.5 HSPF ASHP - ID	08/20/2012	RTF Deemed	5,676.00	Measure
Heat Pump Conversion to 9.0 HSPF (Tier 2); Tier 2 Convert EFAF W/CAC to 9.0 HSPF ASHP - ID	08/20/2012	RTF Deemed	5,166.00	Measure
Heat Pump Upgrade to 8.5 HSPF with Best practice install □ sealing - ID	08/20/2012	Federal Standard	2,998.00	Measure
Heat Pump Upgrade to 9.0 HSPF with Best practice install □ sealing - ID	08/20/2012	Federal Standard	3,188.00	Measure
SuperBundle: Heat Pump Conversion Bundle - ID	08/20/2012	RTF Deemed	0.00	Sq. ft.
SuperBundle: Heat Pump Upgrade Bundle - ID	08/20/2012	RTF Deemed	0.00	Sq. ft.
Heat Pump:Heat Pump - Ductless				
Ductless Heat Pump - ID	08/20/2012	RTF Deemed	3,500.00	Measure
SuperBundle: Ductless Heat Pump Bundle - ID	08/20/2012	RTF Deemed	0.00	Sq. ft.
Heat Pump:Heat Pump - Ground Source				
□ SHP Conversion from FAF w/o CAC - ID	08/20/2012	RTF Deemed	12,525.00	Measure
□ SHP Upgrade from ASHP - ID	08/20/2012	RTF Deemed	4,702.00	Measure
Heat Pump:Heat Pump - Tune-Up				
Heat Pump Tune-up - ID	08/20/2012	RTF Deemed	639.00	Measure
Ventilation:Furnace Fan				
95 □ Gas Furnace w/ECM Blower - ID	08/20/2012	RMP Calculation	528.00	Measure
Measure Category: Lighting				
General Service:LED				
LED □ General: 10 watts - ID	08/20/2012	RMP Deemed	25.52	Measure
LED □ General: 11 watts - ID	08/20/2012	RMP Deemed	28.07	Measure
LED □ General: 12 watts - ID	08/20/2012	RMP Deemed	30.63	Measure
LED □ General: 13 watts - ID	08/20/2012	RMP Deemed	33.18	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program / Home Energy Savings	Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (MWhr)	Savings unit
ED General: 14 watts - ID	08/20/2012	RMP Deemed	22.76	Measure
ED General: 15 watts - ID	08/20/2012	RMP Deemed	22.18	Measure
ED General: 16 watts - ID	08/20/2012	RMP Deemed	32.68	Measure
ED General: 2 watts - ID	08/20/2012	RMP Deemed	5.11	Measure
ED General: 8 watts - ID	08/20/2012	RMP Deemed	20.42	Measure
ED General: 9 watts - ID	08/20/2012	RMP Deemed	22.97	Measure
General Service Fixtures:Energy Star Fixtures - ID	08/20/2012	RMP Calculation	41.65	Measure
General Service Lamps:CFL				
CF General Purpose - A-lamp: 10 watts - ID	08/20/2012	RMP Deemed	10.89	Measure
CF General Purpose - A-lamp: 11 watts - ID	08/20/2012	RMP Deemed	11.98	Measure
CF General Purpose - A-lamp: 12 watts - ID	08/20/2012	RMP Deemed	13.07	Measure
CF General Purpose - A-lamp: 13 watts - ID	08/20/2012	RMP Deemed	14.16	Measure
CF General Purpose - A-lamp: 14 watts - ID	08/20/2012	RMP Deemed	15.25	Measure
CF General Purpose - A-lamp: 15 watts - ID	08/20/2012	RMP Deemed	16.33	Measure
CF General Purpose - A-lamp: 16 watts - ID	08/20/2012	RMP Deemed	17.42	Measure
CF General Purpose - A-lamp: 17 watts - ID	08/20/2012	RMP Deemed	18.51	Measure
CF General Purpose - A-lamp: 18 watts - ID	08/20/2012	RMP Deemed	19.60	Measure
CF General Purpose - A-lamp: 19 watts - ID	08/20/2012	RMP Deemed	20.69	Measure
CF General Purpose - A-lamp: 20 watts - ID	08/20/2012	RMP Deemed	21.78	Measure
CF General Purpose - A-lamp: 21 watts - ID	08/20/2012	RMP Deemed	22.87	Measure
CF General Purpose - A-lamp: 22 watts - ID	08/20/2012	RMP Deemed	23.96	Measure
CF General Purpose - A-lamp: 23 watts - ID	08/20/2012	RMP Deemed	25.05	Measure
CF General Purpose - A-lamp: 24 watts - ID	08/20/2012	RMP Deemed	20.10	Measure
CF General Purpose - A-lamp: 25 watts - ID	08/20/2012	RMP Deemed	19.69	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program: Home Energy Savings	Purpose	Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (GWh/yr)	Savings unit
CF□ General Purpose - A-Tamp: 26 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	19.27	Measure
CF□ General Purpose - A-Tamp: 27 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	18.85	Measure
CF□ General Purpose - A-Tamp: 28 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	18.43	Measure
CF□ General Purpose - A-Tamp: 29 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	18.01	Measure
CF□ General Purpose - A-Tamp: 3 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	3.27	Measure
CF□ General Purpose - A-Tamp: 30 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	17.59	Measure
CF□ General Purpose - A-Tamp: 31 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	17.17	Measure
CF□ General Purpose - A-Tamp: 32 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	16.75	Measure
CF□ General Purpose - A-Tamp: 4 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	4.36	Measure
CF□ General Purpose - A-Tamp: 5 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	5.44	Measure
CF□ General Purpose - A-Tamp: 6 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	6.53	Measure
CF□ General Purpose - A-Tamp: 7 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	7.62	Measure
CF□ General Purpose - A-Tamp: 8 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	8.71	Measure
CF□ General Purpose - A-Tamp: 9 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	9.80	Measure
CF□ General Purpose - Spiral: 10 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	10.89	Measure
CF□ General Purpose - Spiral: 11 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	11.98	Measure
CF□ General Purpose - Spiral: 12 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	13.07	Measure
CF□ General Purpose - Spiral: 13 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	14.16	Measure
CF□ General Purpose - Spiral: 14 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	15.25	Measure
CF□ General Purpose - Spiral: 15 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	16.33	Measure
CF□ General Purpose - Spiral: 16 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general Purpose	08/20/2012	RMP Deemed	17.42	Measure
CF□ General Purpose - Spiral: 17 watts - ID	Energy efficient Compact Fluorescent Tamps-□ general	08/20/2012	RMP Deemed	18.51	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program :Home Energy Savings	Purpose	Effective Date	Energy Savings Calculation method	<input type="checkbox"/> ross incremental annual electric savings (TWh/yr)	Savings unit
				<input type="checkbox"/> ross incremental annual electric savings (TWh/yr)	
CF□eneral Purpose - Spiral: 18 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	19.60	Measure
CF□eneral Purpose - Spiral: 19 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	20.69	Measure
CF□eneral Purpose - Spiral: 20 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	21.78	Measure
CF□eneral Purpose - Spiral: 21 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	22.87	Measure
CF□eneral Purpose - Spiral: 22 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	23.96	Measure
CF□eneral Purpose - Spiral: 23 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	25.05	Measure
CF□eneral Purpose - Spiral: 24 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	26.10	Measure
CF□eneral Purpose - Spiral: 25 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	19.69	Measure
CF□eneral Purpose - Spiral: 26 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	19.27	Measure
CF□eneral Purpose - Spiral: 27 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	18.85	Measure
CF□eneral Purpose - Spiral: 28 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	18.43	Measure
CF□eneral Purpose - Spiral: 29 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	18.01	Measure
CF□eneral Purpose - Spiral: 30 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	17.59	Measure
CF□eneral Purpose - Spiral: 31 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	17.17	Measure
CF□eneral Purpose - Spiral: 32 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	16.75	Measure
CF□eneral Purpose - Spiral: 4 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	4.36	Measure
CF□eneral Purpose - Spiral: 5 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	5.44	Measure
CF□eneral Purpose - Spiral: 6 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	6.53	Measure
CF□eneral Purpose - Spiral: 7 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	7.62	Measure
CF□eneral Purpose - Spiral: 8 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	8.71	Measure
CF□eneral Purpose - Spiral: 9 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral Purpose	08/20/2012	RMP Deemed	9.80	Measure
CF□eneral Purpose- Spiral: 3 watts - ID	Energy efficient Compact Fluorescent Camps-□eneral	08/20/2012	RMP Deemed	3.27	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program: Home Energy Savings	Purpose	Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (MWh/yr)		Savings unit
				<input type="checkbox"/> gross incremental annual electric savings (MWh/yr)		
CF□ Specialty - 3-way: 10.20,28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81		Measure
CF□ Specialty - 3-way: 12.19,28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47		Measure
CF□ Specialty - 3-way: 12.20,28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81		Measure
CF□ Specialty - 3-way: 12.20,28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81		Measure
CF□ Specialty - 3-way: 12.21,32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	28.15		Measure
CF□ Specialty - 3-way: 12.22,33 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	29.49		Measure
CF□ Specialty - 3-way: 12.23,39 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	30.83		Measure
CF□ Specialty - 3-way: 13.19,28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47		Measure
CF□ Specialty - 3-way: 13.20,25 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81		Measure
CF□ Specialty - 3-way: 14.19,32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47		Measure
CF□ Specialty - 3-way: 15.26,40 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	34.85		Measure
CF□ Specialty - 3-way: 16.25,32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	33.51		Measure
CF□ Specialty - Candelabra: 10 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	13.40		Measure
CF□ Specialty - Candelabra: 11 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	14.74		Measure
CF□ Specialty - Candelabra: 12 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	16.08		Measure
CF□ Specialty - Candelabra: 13 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	17.42		Measure
CF□ Specialty - Candelabra: 14 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	18.76		Measure
CF□ Specialty - Candelabra: 15 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	20.10		Measure
CF□ Specialty - Candelabra: 16 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	21.44		Measure
CF□ Specialty - Candelabra: 17 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	22.78		Measure
CF□ Specialty - Candelabra: 18 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	24.13		Measure
CF□ Specialty - Candelabra: 19 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47		Measure
CF□ Specialty - Candelabra: 20 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81		Measure
CF□ Specialty - Candelabra: 21 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	28.15		Measure
CF□ Specialty - Candelabra: 22 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	29.49		Measure
CF□ Specialty - Candelabra: 23 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	30.83		Measure
CF□ Specialty - Candelabra: 24 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	32.17		Measure
CF□ Specialty - Candelabra: 25 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	33.51		Measure
CF□ Specialty - Candelabra: 26 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	34.85		Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Home Energy Savings		Effective Date	Energy Savings Calculation method	□ Gross incremental annual electric savings (TWh/yr)	Savings unit
CF□ Specialty - Candelabra: 27 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	36.19	Measure
CF□ Specialty - Candelabra: 28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	37.53	Measure
CF□ Specialty - Candelabra: 29 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	38.87	Measure
CF□ Specialty - Candelabra: 3 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	4.02	Measure
CF□ Specialty - Candelabra: 30 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	40.21	Measure
CF□ Specialty - Candelabra: 31 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	41.55	Measure
CF□ Specialty - Candelabra: 32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	42.89	Measure
CF□ Specialty - Candelabra: 4 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	5.36	Measure
CF□ Specialty - Candelabra: 5 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	6.70	Measure
CF□ Specialty - Candelabra: 6 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	8.04	Measure
CF□ Specialty - Candelabra: 7 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	9.38	Measure
CF□ Specialty - Candelabra: 8 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	10.72	Measure
CF□ Specialty - Candelabra: 9 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	12.06	Measure
CF□ Specialty - Dimmable: 10 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	13.40	Measure
CF□ Specialty - Dimmable: 11 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	14.74	Measure
CF□ Specialty - Dimmable: 12 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	16.08	Measure
CF□ Specialty - Dimmable: 13 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	17.42	Measure
CF□ Specialty - Dimmable: 14 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	18.76	Measure
CF□ Specialty - Dimmable: 15 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	20.10	Measure
CF□ Specialty - Dimmable: 16 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	21.44	Measure
CF□ Specialty - Dimmable: 17 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	22.78	Measure
CF□ Specialty - Dimmable: 18 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	24.13	Measure
CF□ Specialty - Dimmable: 19 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47	Measure
CF□ Specialty - Dimmable: 20 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81	Measure
CF□ Specialty - Dimmable: 21 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	28.15	Measure
CF□ Specialty - Dimmable: 22 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	29.49	Measure
CF□ Specialty - Dimmable: 23 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	30.83	Measure
CF□ Specialty - Dimmable: 24 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	32.17	Measure
CF□ Specialty - Dimmable: 25 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	33.51	Measure
CF□ Specialty - Dimmable: 26 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	34.85	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program: Home Energy Savings	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (MWh/yr)		Savings unit
			Measure	Measure	
CF□ Specialty - Dimmable: 27 watts - ID	08/20/2012	RMP Deemed	36.19	36.19	Measure
CF□ Specialty - Dimmable: 28 watts - ID	08/20/2012	RMP Deemed	37.53	37.53	Measure
CF□ Specialty - Dimmable: 29 watts - ID	08/20/2012	RMP Deemed	38.87	38.87	Measure
CF□ Specialty - Dimmable: 3 watts - ID	08/20/2012	RMP Deemed	4.02	4.02	Measure
CF□ Specialty - Dimmable: 30 watts - ID	08/20/2012	RMP Deemed	40.21	40.21	Measure
CF□ Specialty - Dimmable: 31 watts - ID	08/20/2012	RMP Deemed	41.55	41.55	Measure
CF□ Specialty - Dimmable: 32 watts - ID	08/20/2012	RMP Deemed	42.89	42.89	Measure
CF□ Specialty - Dimmable: 4 watts - ID	08/20/2012	RMP Deemed	5.36	5.36	Measure
CF□ Specialty - Dimmable: 5 watts - ID	08/20/2012	RMP Deemed	6.70	6.70	Measure
CF□ Specialty - Dimmable: 6 watts - ID	08/20/2012	RMP Deemed	8.04	8.04	Measure
CF□ Specialty - Dimmable: 7 watts - ID	08/20/2012	RMP Deemed	9.38	9.38	Measure
CF□ Specialty - Dimmable: 8 watts - ID	08/20/2012	RMP Deemed	10.72	10.72	Measure
CF□ Specialty - Dimmable: 9 watts - ID	08/20/2012	RMP Deemed	12.06	12.06	Measure
CF□ Specialty - □lobe: 10 watts - ID	08/20/2012	RMP Deemed	13.40	13.40	Measure
CF□ Specialty - □lobe: 11 watts - ID	08/20/2012	RMP Deemed	14.74	14.74	Measure
CF□ Specialty - □lobe: 12 watts - ID	08/20/2012	RMP Deemed	16.08	16.08	Measure
CF□ Specialty - □lobe: 13 watts - ID	08/20/2012	RMP Deemed	17.42	17.42	Measure
CF□ Specialty - □lobe: 14 watts - ID	08/20/2012	RMP Deemed	18.76	18.76	Measure
CF□ Specialty - □lobe: 15 watts - ID	08/20/2012	RMP Deemed	20.10	20.10	Measure
CF□ Specialty - □lobe: 16 watts - ID	08/20/2012	RMP Deemed	21.44	21.44	Measure
CF□ Specialty - □lobe: 17 watts - ID	08/20/2012	RMP Deemed	22.78	22.78	Measure
CF□ Specialty - □lobe: 18 watts - ID	08/20/2012	RMP Deemed	24.13	24.13	Measure
CF□ Specialty - □lobe: 19 watts - ID	08/20/2012	RMP Deemed	25.47	25.47	Measure
CF□ Specialty - □lobe: 20 watts - ID	08/20/2012	RMP Deemed	26.81	26.81	Measure
CF□ Specialty - □lobe: 21 watts - ID	08/20/2012	RMP Deemed	28.15	28.15	Measure
CF□ Specialty - □lobe: 22 watts - ID	08/20/2012	RMP Deemed	29.49	29.49	Measure
CF□ Specialty - □lobe: 23 watts - ID	08/20/2012	RMP Deemed	30.83	30.83	Measure
CF□ Specialty - □lobe: 24 watts - ID	08/20/2012	RMP Deemed	32.17	32.17	Measure
CF□ Specialty - □lobe: 25 watts - ID	08/20/2012	RMP Deemed	33.51	33.51	Measure
CF□ Specialty - □lobe: 26 watts - ID	08/20/2012	RMP Deemed	34.85	34.85	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Home Energy Savings		Effective Date	Energy Savings Calculation method	Cross incremental annual electric savings (\$/Wh/yr)		Savings unit
				Cross incremental annual electric savings (\$/Wh/yr)	Measure	
CF □ Specialty - □ lobe: 27 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	36.19		Measure
CF □ Specialty - □ lobe: 28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	37.53		Measure
CF □ Specialty - □ lobe: 29 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	38.87		Measure
CF □ Specialty - □ lobe: 3 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	4.02		Measure
CF □ Specialty - □ lobe: 30 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	40.21		Measure
CF □ Specialty - □ lobe: 31 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	41.55		Measure
CF □ Specialty - □ lobe: 32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	42.89		Measure
CF □ Specialty - □ lobe: 4 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	5.36		Measure
CF □ Specialty - □ lobe: 5 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	6.70		Measure
CF □ Specialty - □ lobe: 6 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	8.04		Measure
CF □ Specialty - □ lobe: 7 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	9.38		Measure
CF □ Specialty - □ lobe: 8 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	10.72		Measure
CF □ Specialty - □ lobe: 9 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	12.08		Measure
CF □ Specialty - High Wattage: 10 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	13.40		Measure
CF □ Specialty - High Wattage: 11 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	14.74		Measure
CF □ Specialty - High Wattage: 12 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	16.08		Measure
CF □ Specialty - High Wattage: 13 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	17.42		Measure
CF □ Specialty - High Wattage: 14 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	18.76		Measure
CF □ Specialty - High Wattage: 15 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	20.10		Measure
CF □ Specialty - High Wattage: 16 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	21.44		Measure
CF □ Specialty - High Wattage: 17 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	22.78		Measure
CF □ Specialty - High Wattage: 18 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	24.13		Measure
CF □ Specialty - High Wattage: 19 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47		Measure
CF □ Specialty - High Wattage: 20 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81		Measure
CF □ Specialty - High Wattage: 21 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	28.15		Measure
CF □ Specialty - High Wattage: 22 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	29.49		Measure
CF □ Specialty - High Wattage: 23 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	30.83		Measure
CF □ Specialty - High Wattage: 24 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	32.17		Measure
CF □ Specialty - High Wattage: 25 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	33.51		Measure
CF □ Specialty - High Wattage: 26 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	34.85		Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program - Home Energy Savings		Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings ((MWh/yr)	Savings unit
CF□ Specialty - High Wattage: 27 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	36.19	Measure
CF□ Specialty - High Wattage: 28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	37.53	Measure
CF□ Specialty - High Wattage: 29 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	38.87	Measure
CF□ Specialty - High Wattage: 3 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	4.02	Measure
CF□ Specialty - High Wattage: 30 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	40.21	Measure
CF□ Specialty - High Wattage: 31 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	41.55	Measure
CF□ Specialty - High Wattage: 32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	42.89	Measure
CF□ Specialty - High Wattage: 4 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	5.36	Measure
CF□ Specialty - High Wattage: 5 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	6.70	Measure
CF□ Specialty - High Wattage: 6 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	8.04	Measure
CF□ Specialty - High Wattage: 7 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	9.38	Measure
CF□ Specialty - High Wattage: 8 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	10.72	Measure
CF□ Specialty - High Wattage: 9 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	12.06	Measure
CF□ Specialty - Reflector: 10 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	13.40	Measure
CF□ Specialty - Reflector: 11 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	14.74	Measure
CF□ Specialty - Reflector: 12 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	16.08	Measure
CF□ Specialty - Reflector: 13 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	17.42	Measure
CF□ Specialty - Reflector: 14 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	18.76	Measure
CF□ Specialty - Reflector: 15 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	20.10	Measure
CF□ Specialty - Reflector: 16 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	21.44	Measure
CF□ Specialty - Reflector: 17 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	22.78	Measure
CF□ Specialty - Reflector: 18 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	24.13	Measure
CF□ Specialty - Reflector: 19 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	25.47	Measure
CF□ Specialty - Reflector: 20 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	26.81	Measure
CF□ Specialty - Reflector: 21 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	28.15	Measure
CF□ Specialty - Reflector: 22 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	29.49	Measure
CF□ Specialty - Reflector: 23 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	30.83	Measure
CF□ Specialty - Reflector: 24 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	32.17	Measure
CF□ Specialty - Reflector: 25 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	33.51	Measure
CF□ Specialty - Reflector: 26 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	34.85	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Home Energy Savings	Effective Date	Energy Savings Calculation method	Cross incremental annual electric savings (MWh/yr)		Savings unit
			Measure	Measure	
CF□ Specialty - Reflector: 27 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	36.19	Measure
CF□ Specialty - Reflector: 28 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	37.53	Measure
CF□ Specialty - Reflector: 29 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	38.87	Measure
CF□ Specialty - Reflector: 3 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	4.02	Measure
CF□ Specialty - Reflector: 30 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	40.21	Measure
CF□ Specialty - Reflector: 31 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	41.55	Measure
CF□ Specialty - Reflector: 32 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	42.89	Measure
CF□ Specialty - Reflector: 4 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	5.36	Measure
CF□ Specialty - Reflector: 5 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	6.70	Measure
CF□ Specialty - Reflector: 6 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	8.04	Measure
CF□ Specialty - Reflector: 7 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	9.38	Measure
CF□ Specialty - Reflector: 8 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	10.72	Measure
CF□ Specialty - Reflector: 9 watts - ID	Energy efficient Compact Fluorescent Lamps-Specialty	08/20/2012	RMP Deemed	12.06	Measure
Specialty Lamps: LED					
ED Downlight: 10 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	33.50	Measure
ED Downlight: 11 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	36.85	Measure
ED Downlight: 12 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	40.20	Measure
ED Downlight: 13 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	43.55	Measure
ED Downlight: 14 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	46.91	Measure
ED Downlight: 15 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	50.26	Measure
ED Downlight: 16 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	53.61	Measure
ED Downlight: 17 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	56.96	Measure
ED Downlight: 18 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	60.31	Measure
ED Downlight: 20 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	67.01	Measure
ED Downlight: 5 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	16.75	Measure
ED Downlight: 6 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	20.10	Measure
ED Downlight: 7 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	23.45	Measure
ED Downlight: 8 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	26.80	Measure
ED Downlight: 9 watts - ID	Energy efficient CED lighting- Downlights	08/20/2012	RMP Deemed	30.15	Measure
ED Specialty: 10 watts - ID	Energy efficient CED lighting- Specialty	08/20/2012	RMP Deemed	27.48	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program	Home Energy Savings	Effective Date	Energy Savings Calculation method	<input type="checkbox"/> Gross incremental annual electric savings (GWh/yr)		Savings unit
				<input type="checkbox"/> Energy efficient LED lighting- Specialty	5.50	
ED Specialty: 2 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed	8.24		Measure
ED Specialty: 3 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed	10.99		Measure
ED Specialty: 4 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed	13.74		Measure
ED Specialty: 5 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed	16.49		Measure
ED Specialty: 6 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed	19.23		Measure
ED Specialty: 7 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed	21.98		Measure
ED Specialty: 8 watts - ID	Energy efficient LED lighting- Specialty	08/20/2012	RMP Deemed			
Measure Category : Water Heating						
Residential						
Water Heater:Heat Pump Water Heater						
HPVH - Tier 1 - 50 to 75 gallons - Any Heat Type - <input type="checkbox"/> heated Buffer Location - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	881.00		Measure
HPVH - Tier 1 - 50 to 75 gallons - Electric Furnace Heated Home - Interior Location - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	556.00		Measure
HPVH - Tier 1 - 50 to 75 gallons - <input type="checkbox"/> as Heated Home - Interior <input type="checkbox"/> ocation - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	1,547.00		Measure
HPVH - Tier 1 - 50 to 75 gallons - Heat Pump Heated Home - Interior Location - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	1,189.00		Measure
HPVH - Tier 1 - 50 to 75 gallons - <input type="checkbox"/> onal Electric Heated Home - Interior Location - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	648.00		Measure
HPVH - Tier 1 - greater than 75 gallons - Any Heat Type - <input type="checkbox"/> heated Buffer <input type="checkbox"/> ocation - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	1,811.00		Measure
HPVH - Tier 1 - greater than 75 gallons - Electric Furnace Heated Home - Interior Location - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	833.00		Measure
HPVH - Tier 1 - greater than 75 gallons - <input type="checkbox"/> as Heated Home - Interior Location - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	2,169.00		Measure
HPVH - Tier 1 - greater than 75 gallons - Heat Pump Heated Home - Interior <input type="checkbox"/> ocation - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	1,686.00		Measure
HPVH - Tier 1 - greater than 75 gallons - <input type="checkbox"/> onal Electric Heated Home - Interior <input type="checkbox"/> ocation - PNW - ID	Electric heat pump water heater	08/20/2012	RTF Deemed	957.00		Measure
Water Heater:Water Heater						
Electric Water Heater (.93 EF or greater) 50 gallon - ID	Energy efficient electric water heaters	08/20/2012	Federal Standard	175.00		Measure
Electric Water Heater (.94 EF or greater) 40 gallon - ID	Energy efficient electric water heaters	08/20/2012	Federal Standard	99.00		Measure
Electric Water Heater (.94 EF or greater) 50 gallon - ID	Energy efficient electric water heaters	08/20/2012	Federal Standard	111.00		Measure
Electric Water Heater (.95 EF or greater) 55 gallon - ID	Energy efficient electric water heaters	08/20/2012	Federal Standard	131.00		Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Irrigation Energy Savers	Measure Category : Irrigation	Effective Date	Energy Savings Calculation method	Gross incremental annual electric savings (TWh/yr)	Savings unit
Water Distribution Equipment:Center Pivot Equipment					
Measure Category : Irrigation					
Non-Residential Irrigation					
Dual Sprinkler Package - ID	Existing dual sprinklers with a design flow <input checked="" type="checkbox"/> 7.5 gpm/acre to dual sprinklers with a design flow <input type="checkbox"/> 5 gpm/acre	05/01/2008	RMP Deemed	5,396.00	Measure
Cow Pressure Drain - ID	Existing low pressure drains to new low pressure drain replacement parts or entire drain assemblies	05/01/2008	RMP Deemed	366.00	Measure
Replacement Sprinkler Package (Custom) - ID	New pivot or linear sprinkler package replacing a worn sprinkler package.	09/01/2010	RMP Deemed	Energy savings vary by installation - see attached workbook	Measure
Replacement Sprinkler Package (Prescriptive) - ID	Existing sprinkler package with a design flow <input checked="" type="checkbox"/> 8.5 gpm/acre to a new sprinkler package with a design flow <input type="checkbox"/> 7.5 gpm/acre	05/01/2008	RMP Deemed	10,792.00	Measure
Sprinkler Pressure Regulator (Custom) - ID	New pivot or linear pressure regulators replacing worn pressure regulators.	09/01/2010	RMP Deemed	Energy savings vary by installation - see attached workbook	Measure
Sprinkler Pressure Regulator (Prescriptive) - ID	Existing sprinkler pressure regulators to new sprinkler pressure regulators with the same or lower outlet design pressure	05/01/2008	RMP Deemed	113.00	Measure
Water Distribution Equipment:Nozzles, Gaskets & Drains					
Drain replacement - ID	New drain replacing worn drain on hand lines, wheel lines, and solid-set sprinkler systems	05/01/2008	RMP Deemed	24.30	Measure
Drain replacement - ID	New gasket replacing worn gasket on hand lines, wheel lines, and solid-set sprinkler systems	05/01/2008	RMP Deemed	24.30	Measure
Nozzle replacement - ID	New nozzle replacing worn nozzle on hand lines, wheel lines, and solid-set sprinkler systems	05/01/2008	RMP Deemed	11.90	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	Cross incremental annual electric savings (MWh/yr)	Savings unit	
Program : Low Income Weatherization						
Measure Category : Appliances						
Refrigerators:Refrigerator						
901 Refrigerator Replacement - ID	Energy Star refrigerators	Residential Low Income	01/01/2011	RMP Deemed	759.00	Home
Measure Category : Building Shell						
Air Sealing:Air Sealed//Infiltration		Residential Low Income				
18 Air Sealed//Infiltration - ID	Air sealing	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Doors:Thermal Doors		Residential Low Income				
31 Thermal Doors - ID	Thermal doors	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Grounds:Ground Cover		Residential Low Income				
46 □round Cover - ID	□round cover when installed with floor insulation	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Insulation:Ceiling Insulation		Residential Low Income				
09 Ceiling Insulation - ID	Ceiling insulation	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Insulation:Floor Insulation		Residential Low Income				
11 Floor Insulation - ID	Floor insulation	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Insulation:Wall Insulation		Residential Low Income				
08 Wall Insulation - ID	Wall insulation	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Ventilation:Attic Ventilation		Residential Low Income				
10 Attic □ventilation - ID	Attic ventilation	Residential Low Income	01/01/2011	no savings	0.00	
Weatherization:Weatherization		Residential Low Income				
1D Weatherization (insulation and/or windows) - ID	This is not a distinct measure but allows for a deemed savings amount to be applied to shell measures/a set kWh per home	Residential Low Income	01/01/2011	RMP Deemed	2,153.00	Home
Windows:Window Replacement		Residential Low Income				
31 Storm Windows - ID	Storm windows	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
32 Double □lass Replacement - ID	Replacement windows with a □-value of 0.35 or less	Residential Low Income	01/01/2011	RMP Deemed	0.00	Home
Measure Category : Health and Safety						
Health and Safety:Health and Safety		Residential Low Income				
274 Health and Safety - ID	Health and safety measures related to electric usage	Residential Low Income	01/01/2011	no savings	0.00	
Measure Category : HVAC						

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

Program : Low Income Weatherization		Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (kWh/yr)	Savings unit
Controls and Thermostats:Thermostat					
14 Closet Thermostat - ID	Timed thermostats	01/01/2011	no savings	0.00	
Ducting:Duct Sealing and/or Insulation					
15 Duct Insulation/Sealing Insulation - ID	Duct insulation	01/01/2011	RMP Deemed	0.00	Home
561 Duct Sealing - ID	Duct sealing	01/01/2011	RMP Deemed	0.00	Home
Heating:Furnace Repair					
271 Furnace Repair - ID	Electric furnace repair	01/01/2011	RMP Deemed	613.00	Measure
Heating:Furnace Replacement					
272 Furnace Replacement - ID	Electric furnace replacement	01/01/2011	RMP Deemed	1,089.00	Measure
Measure Category : Lighting					
General Service Lamps: CFL	Energy Star CFLs	01/01/2011	RMP Deemed	224.00	Home
21 Fluorescent Lighting - ID					
Measure Category : Water Heating					
Flow Control:Faucet Aerators					
501 Faucet Aerators - ID	Faucet aerators	01/01/2011	RMP Deemed	75.00	Home
Flow Control:Low Flow Shower Head					
19 Low Flow Shower Head - ID	Showerheads	01/01/2011	RMP Deemed	230.00	Measure
Pipe Insulation:Pipe Insulation					
12 Pipe Insulation HHD - ID	Water pipe wrap	01/01/2011	RMP Deemed	92.00	Home
Water Heater:Water Heater Repair					
240 Water Heater Repair - ID	Electric water heater repair	01/01/2011	RMP Deemed	118.00	Measure
Water Heater:Water Heater Replacement					
273 Water Heater Replacement - ID	Electric water heater replacement	01/01/2011	RMP Deemed	118.00	Measure
Measure Category : Whole Home					
Whole Home:Whole Home					
Energy Conservation Education Kit - ID		01/01/2011	RMP Deemed	136.00	Measure

Rocky Mountain Power Energy Efficiency Measures for Idaho

Measures Active on 04/23/2013

		Effective Date	Energy Savings Calculation method	gross incremental annual electric savings (MWh/yr)	Savings unit
Program: See Ya Later, Refrigerator					
Measure Category : Appliances					
Measure Category: Freezer					
Freezer Recycling - ID	Freezer recycling	01/01/2012	RMP Deemed	1,041.00	Measure
Measure Category: Refrigerator					
Refrigerator Recycling - ID	Refrigerator recycling	01/01/2012	RMP Deemed	1,190.00	Measure
Measure Category: Lighting					
General Service Lamps:CFL	Energy savings lit	01/01/2012	RMP Deemed	74.00	Measure



Appendix 4

Idaho Measure Installation Verifications

Idaho Measure Installation Verifications

Low Income Weatherization

All projects

- All measures are qualified through US Department of Energy approved audit tool or priority list.
- 100 percent inspection by agency inspector of all homes treated, reconciling work completed and quality (corrective action includes measure verification) prior to invoicing Company.
- Community Action Partnership Association of Idaho (CAPAI) and state inspector follows with random inspections.
- Company program manager joins CAPAI and state inspectors during their monitoring session.

Home Energy Savings

Site inspections by Program Administrator staff for the following retrofit measures (>=5 percent)

- Insulation
- Windows
- Heat pump tune-ups
- Duct sealing and insulation
- Heat pump best practices installation and proper sizing

Site inspections of 100 percent by Program Administrator staff of all heat pump water heaters.

No site inspections are conducted for the following measures. However all post-purchase incented measures undergo a quality assurance review prior to the issuance of the customer/dealer incentive and recording of savings (i.e. proof of purchase receipt review) and eligible equipment review. Additionally, customer account and customer address are checked to ensure the Company does not double pay for the same measure or double count measure savings.

- Refrigerators
- Dishwasher
- Ceiling fans
- Light fixtures
- Clothes washers
- Water heaters (excluding heat pump water heaters)
- Evaporative coolers
- Air conditioners

Other measures

- CFLs – retail channel, manufacturer agreements and program administrator sales record reviews of qualifying equipment. Invoicing and retail pricing is administered by program administrator.

- LEDs – retail channel, manufacturer agreements and program administrator sales record reviews of qualifying equipment. Invoicing and retail pricing is administered by program administrator.

Refrigerator Recycling

Company hires an independent inspector to phone survey >=5 percent program participants and to site inspect >= 10 percent of program participants in order to verifying program participation, eligibility of equipment, that vendor pick-up procedures are followed (equipment is disabled at site, kits distributed, etc.) and to survey customer experience.

FinAnswer Express

For trade ally program administrated projects

Lighting projects

- Retrofits - 100 percent pre- and post-installation site inspections by third party consultant of all projects with incentives over a specified dollar amount. Project cost documentation reviewed for all projects.
- New construction - 100 percent post-installation site inspections by third party consultant of all projects with incentives over a specified dollar amount.
- A percent of post-installation site inspections by program administrator of projects with incentives under a specified dollar amount.

Non-lighting projects

- 100 percent of applications with an incentive that exceeds a specified dollar amount will be inspected (via site inspection) by program administrator.
- A minimum of a specified percent of remaining non-lighting applications will be inspected, either in person or via telephone interview, by program administrator.

For Company project manager delivered projects (lighting and non-lighting)

Lighting and non-lighting

- 100 percent pre/post-installation site inspections by third party consulting engineering firms, invoice reconciled to inspection results.

Energy FinAnswer

All projects

- 100 percent pre and/or post-site inspections by third party engineering consultant, inspection is reconciled with project invoice for energy efficiency retrofit measures provided by customers. No pre-inspection for new construction.
- Most projects have a commissioning requirement.

All Programs

As part of the third-party program evaluations (two-year cycle) process, the Company is implementing semi-annual customer surveys to collect evaluation-relevant data more frequently to cure for memory loss and other detractors such as customers moving and data not be readily available at evaluation time). This will serve as a further check verifying customer participation and measures installed.

Additional record reviews and site inspections (including metering/data logging) is conducted as part of the process and impact evaluations, a final verification of measure installations.



Appendix 5

Idaho Program Evaluations

Idaho 2012 Evaluations

Program Evaluation Recommendations and Company Responses

Evaluation reports provide detailed information on the process and impact evaluations performed on each program, summarizing the methodology used to calculate the evaluated savings as well as providing recommendations for the Company to consider for improving the process or impact of the program, as well as customer satisfaction.

Outlined below is a list of the programs, the years that were evaluated during 2012 and the third party evaluator who completed the evaluation. Program evaluations are available for review at www.pacificorp.com/es/dsm/idaho.html

Program	Years Evaluated	Evaluator
Home Energy Savings	2009-2010	The Cadmus Group
See ya later, refrigerator	2009-2010	The Cadmus Group

Company responses to the program recommendations contained in the 2009 – 2010 evaluations are provided below.

The third party evaluator's recommendations and Company's responses are provided in the below Tables:

Table 1
Home Energy Savings Evaluation Recommendations

Evaluation Recommendations	Rocky Mountain Power Action Plan
To support Idaho lighting retailers planning to educate customers about EISA, Rocky Mountain Power should consider providing educational point-of-purchase materials about EISA, framed in the context of increased availability of utility-supported, high-efficiency lighting options. This will further aid retailers in preparing customers for changes in lighting availability	The Company developed an EISA communications plan in June 2011. Materials and messaging on EISA are already integrated into the program's marketing plans. Messaging doesn't focus on the specifics of EISA but rather on educating consumers on the meaning and difference for lumens and watts. Point-of-purchase marketing materials for lighting emphasize educating customers on how to choose the right light bulb for the right application with information on color rendering, lumens and related information.
Train lighting retailers to properly educate and prepare customers for EISA changes,	See above response.

Evaluation Recommendations	Rocky Mountain Power Action Plan
specifically the Lighting Facts label required to be displayed on all lighting packages. Supply retailers with point-of-purchase materials that will show customers how to interpret the label, and easily find the Rocky Mountain Power-incented bulbs they need. Although this would not produce directly measureable savings impacts, increased customer satisfaction could indirectly increase customers' willingness to participate in other HES Program components.	
Given the changes in the evolving lighting industry, explore which higher-efficiency lighting options (e.g., LEDs) garner the most savings per unit. Align marketing messages with preferred lighting options to heighten awareness using market transformation tactics.	LEDs were added to the program in August 2012.
The evolving lighting market can act as a platform to clarify marketing messages about lighting options and bulbs best for each customer's intended use. Continue to enhance marketing collateral that compares prices of various lighting options with expected lifetime savings associated with those options to demonstrate the long-term value of higher-efficiency options. The potential long-term savings attributed to qualifying measures served as the primary purchasing motivator for appliance and weatherization participants. These same marketing tactics should be considered for the lighting market, given the elimination of traditional, inexpensive options. Messaging should also highlight comparisons of lighting quality and other factors consumers tend to focus on in satisfaction surveys.	Point-of-purchase marketing materials for lighting emphasize educating customers on how to choose the right light bulb for the right application with information on color rendering, lumens and related information.
Continue with plans to provide recycling centers at all participating retail locations; so customers can simply bring in spent bulbs when purchasing replacements. Recycling centers could convey a positive public image to enhance Rocky Mountain Power's reputation within the community, and add public relations value to the program, particularly with	10 lighting displays incorporating prepaid recycling boxes were distributed to small retailers in mid to late 2011 throughout Pacific Power and Rocky Mountain Power service territory. It was very difficult to get retailers to accept the displays and set them up on the sales floor. The effort yielded no noticeable increase in savings and didn't generate any additional

Evaluation Recommendations	Rocky Mountain Power Action Plan
intervenors. Rocky Mountain Power should raise awareness of the availability of recycling centers through bill inserts, training for retail staff, and other outreach tactics.	benefits for the retailers. The effort has been discontinued.
Baseline wattage assumptions will need to be updated to account for the new EISA standards. The EISA standard established an equivalent baseline by rated lamp lumens. If the actual baseline wattage replaced is not known (i.e. no surveys were conducted), the recommended approach uses the CFL rated lumens and equivalent lumens in EISA to determine baseline wattage. This approach can be used for program evaluations in 2012 and beyond.	The Company has updated baselines to incorporate the new EISA standards and will continue to do so.
The WHF is an adjustment representing the interactive effects of lighting measures on heating and cooling equipment operation. Cadmus did not apply the WHF adjustment to lighting savings estimates as Rocky Mountain Power did not include it in their initial planning estimates. However, Cadmus recommends using the approach outlined in Appendix L and including this adjustment for future planning estimates and evaluations.	The Company has incorporated a WHF into lighting savings.
As the baseline for lighting savings changes, non-lighting savings garnered from the HES Program may have an increased significance. If needed, continue to recruit new trade allies from within Idaho to broaden program awareness throughout the service territory. The HES program has an effective trade ally presence; an increased trade ally network could lead to heightened incentive awareness, further increasing program participation.	The Company constantly is recruiting new trade allies, as well focusing on retaining current trade allies.
To ensure trade allies find it easy to participate and continue to promote the HES program, carry on with plans to offer them online application access.	The Company has not developed online application for trade ally projects. The Company has developed online incentive applications for appliances, light fixtures, electric water heaters and room air conditioners.

Evaluation Recommendations	Rocky Mountain Power Action Plan
Continue with plans to provide trade ally-focused marketing collateral for downloads within the trade ally section of the program Web pages. If possible, marketing materials should offer personalization and/or co-branding options for trade ally promotion.	The Company continues to use a face-to-face, telephone, email and webinar contract strategies for engaging trade allies for all activities. The volume of trade ally materials does not warrant developing a Web-based ordering system. The Company has rolled out a more formal communication and relationship strategy with trade allies. Webinars, a home improvement pocket guide, frequent communications and site visits, inspection feedback, trade ally newsletters, contractor briefs and other tools are being used to provide more value to trade allies and to engage them more thoroughly and consistently.
Provide a greater quantity of materials for trade allies' promotional use. Develop a Web-based tool, allowing trade allies to order these materials as needed.	See above response.
Ensure lighting retailers are trained to inform customers that incented lighting products have been discounted by Rocky Mountain Power.	Lighting retailers receive visits and training from program staff on a regular basis to ensure they inform customers the discounted lighting products are provided by Rocky Mountain.
<p>Track metrics and provide results to evaluators. Metrics help Rocky Mountain Power assess return-on-marketing investments, and fine-tune marketing resource allocations. Currently PECI tracks online activity, program events, call-in phone numbers and conversion information. In-house marketing evaluations can also include:</p> <p>Interviews; Focus groups; Sampling(i.e., surveys prior to and during the campaign);</p> <p>Broadcast-generated impressions (i.e., assess the total number of customers registering the brand message through print, radio, outdoor, sponsorship, and TV marketing);</p> <p>Customer engagement/CRM Reports;</p>	The Company does track web analytics closely. The Company tracks effectiveness of events, direct mail, bill inserts and other outbound communications. The Company will continue to expand its use of marketing metrics to measure effectiveness and to fine-tine campaigns.
Continue to leverage on- and offline social networks to leverage customer satisfaction	The Company has expanded the use of social media (i.e. Twitter, Facebook, etc.) for

Evaluation Recommendations	Rocky Mountain Power Action Plan
levels. Social networks (such as stakeholder trade associations, community networks, Chambers of Commerce, LinkedIn groups, and e-mail networks) provide low-cost, high-volume information distribution vehicles. Continue to consider implementing innovative tactics, such as Living Social and/or Groupon coupon-focused lead generation vehicles.	promoting programs. Program staff is not engaged in local professional associations but relies on Company staff such customer and community managers to represent the program with local organizations.
Broaden promotion of the program's URL. Only 6 percent of participants and 13 percent of trade allies cited the Website as a referral source. Online marketing can be one of the most cost-effective tools to generate interest and leads in remote geographies. Rocky Mountain Power should emphasize its Website in marketing materials as a key tool for obtaining detailed program information. However, marketing channels should continue to focus on approaches reported most effective with customers: bill inserts and in-store displays.	Company marketing strategy has shifted from promoting specific energy efficiency program websites to promoting the overarching marketing brand of wattsmart. Nearly all program marketing materials include the wattsmart.com address instead of the program specific address. The Company continues to maintain its focus on bill inserts and in-store displays as the most effective marketing channels with customers.
Mirror segment-driven messages found with collateral and promotional events on the Website.	Marketing and messaging across channels is consistent.
Outsource the QC process to a locally-based QC firm. Subcontracting with a locally-based firm with viable outside work would decrease travel costs, and eliminate the concerns of a fulltime staff member with idle time between installation inspections.	Quality control inspections for HVAC and weatherization projects are done by program staff.
To improve customer satisfaction, consider requiring installation contractors to provide incentive amounts as a deduction from the customer's bill upfront, then receive reimbursement when correctly submitting the incentive application. This would further motivate contractors to fill out and submit incentive forms in a timely manner.	The Company evaluated this approach and decided against it due to the potential for contractors to inflate costs and the difficulty in ensuring contractors pass along the incentive to the customer as a deduction.
Continue to utilize marketing messages that target the equipment replacement market. Trade allies should be trained to capture this market's interest by promoting the HES	The Company does encourage trade allies to promote the program during emergency replacement situations.

Evaluation Recommendations	Rocky Mountain Power Action Plan
Program when contacted to install new equipment in emergency replacement situations.	
Continue to leverage customer's interest in saving energy by providing trade allies with materials focusing on potential energy cost savings, associated with qualified measures. Information could include estimated annual and lifetime cost savings, compared to the use of a standard efficiency model, and using accurate Rocky Mountain Power rates.	The Company has rolled out a more formal communication and relationship strategy with trade allies. Webinars, a home improvement pocket guide, frequent communications and site visits, inspection feedback, trade ally newsletters, contractor briefs and other tools are being used to provide more value to trade allies and to engage them more thoroughly and consistently.

Table 2
See, ya later refrigerator Evaluation Recommendations

Evaluation Recommendations	Rocky Mountain Power Action Plan
Rocky Mountain Power should continue implementing the SYLR program to achieve cost-effective energy savings.	The Company continues to offer the program.
Rocky Mountain Power should adjust its expected per-unit savings to reflect estimates calculated in this evaluation. Cadmus recommends tracking program savings using the evaluated per-unit gross savings values of 1,190 kWh for refrigerators and 1,041 kWh for freezers.	The Company adjusted kWh savings using the RTF methodology.
Although Rocky Mountain Power did not apply a Waste Heat Factor (WHF) adjustment to CFL savings estimates, the WHF should be applied to all future planning and evaluated CFL savings values. Cadmus recommends tracking program savings from energy-saving kits using the WHF-adjusted gross savings value of 63 kWh.	The Company has incorporated the Waste Heat Factor into the 2013 reporting value for CFL kits.
Per-unit savings can be greatly affected by changes in appliance characteristics, such as configuration, age, and size. The program administrator tracks these characteristics, and Rocky Mountain Power should closely monitor changes in participating units' characteristics.	The Company now requires an annual summary of average participant unit characteristics.

Evaluation Recommendations	Rocky Mountain Power Action Plan
This could be achieved by summarizing participation data on an annual basis, and noting changes in average participant unit characteristics.	
The program administrator and Rocky Mountain Power should continue with plans to improve reporting processes to eliminate the possibility of reporting discrepancies and increase accuracy of reported results. Cadmus identified minor discrepancies in reported number of participant units, and Rocky Mountain Power has since worked with the program administrator to prevent discrepancies between program administrator and Rocky Mountain Power reporting by including additional documentation in monthly reports.	The Company has improved monthly reporting and invoicing to eliminate reporting errors and improve accuracy. Monthly invoices, monthly reports and data from the vendor are all compared each month for accuracy against each other.



Appendix 6

Idaho Low Income

Weatherization Income Guidelines

The Income Criteria for Idaho is set at 200% of the Federal Poverty Level – and is shown in the table below.

Family Size	3 Month Income Limit
1	\$5,585
2	\$7,565
3	\$9,545
4	\$11,525
5	\$13,505
6	\$15,485
7	\$17,465
8	\$19,445

For each additional person in the household beyond eight, add the following dollar amounts to the income eligibility requirements: \$1,980.

These income levels are effective as of July 1, 2012.



Appendix 7

Idaho Trade Allies

Energy Efficiency Alliance



The following is a list of contractors, distributors and other businesses participating in Rocky Mountain Power's Energy Efficiency Alliance displayed in random order (unless sorted by the user) based on the search criteria selected. This listing is provided solely as a convenience to our customers. Rocky Mountain Power does not warrant or guarantee the work performed by these participating vendors. You are solely responsible for any contract with a participating vendor and the performance of any vendor you have chosen.

An asterisk (*) indicates Rocky Mountain Power Outstanding Contribution Award winning trade allies in 2006, 2007, 2008, 2009, 2010, 2011 and/or 2012

Search Criteria:

Selected State(s): Idaho
Specialties: Lighting
HVAC - unitary
HVAC - evaporative
Motors and VFDs
Controls
Building envelope
Appliances
Office Equipment
Food Service
Compressed Air
Farm and Dairy
Irrigation
Other
Business Type: --ANY--

Search Results: 77 - Date and Time: 04/11/2013 04:19:10 PM

Business Name	Specialties	Business Type	Join Date	Projects Completed
American Mechanical Sysytems Service, LLC 7530 South State Street Midvale, UT Phone: 801-428-0400 Website: www.ams-ut.com	Controls HVAC - evaporative HVAC - unitary Motors and VFDs	Contractor	11/30/2012	null
Aspen Engineering and Environmental LLC 140 Aspen Circle Park City, UT Phone: 435-565-1535 Website: www.a2e-llc.com	Building envelope Controls HVAC - evaporative HVAC - unitary Motors and VFDs	Engineering Firm	03/18/2013	Completed
Western Heating & Fireplaces 512 W Judicial Blackfoot, ID Phone: 208-680-1296	HVAC - unitary	Contractor	09/01/2008	Completed
GSC 668 Confluence Ave. Murray, UT Phone: 801-288-1000 Website: www.gscnw.com	Food Service HVAC - evaporative HVAC - unitary	Manufacturer - Rep	12/12/2012	Completed
Bradley Engineering 382 Walnut Street Idaho Falls, ID Phone: 208-523-2862 Website: www.bradleyengineering.com	Lighting	Engineering Firm	09/22/2012	Completed 2
Lennox* 1008 W 2780 S Salt Lake City, UT Phone: 801-556-8889 x 6114 Website: lennox.com	HVAC - unitary	Distributor	11/01/2005	Completed
Electrical Wholesale Supply Co., Inc. - Rexburg 899 Jetstream Dr. Rexburg, ID Phone: 208-356-7282 Website: www.ewscoinc.com	Controls Lighting Motors and VFDs	Distributor	09/22/2012	Completed 1

Energy Efficiency Alliance



qatest	Specialties	Business Type	Join Date	Projects Completed
2324 amy street foster city, CA Phone: 343-434-3434 x 3434	Appliances	Architect	04/02/2013	22
Electrical Wholesale Supply Co., Inc. - Blackfoot 560 Jensen Grove Rd. Blackfoot, ID Phone: 208-542-4995 Website: www.ewscopyinc.com	Controls Lighting Motors and VFDs	Distributor	09/22/2012	null
Maintenance Engineering, Ltd. P.O. Box 2123 Fargo, ND Phone: 208-680-2826 Website: www.me-dtc.com	Lighting	Other: Manufacturer	10/05/2012	null
High Country HVAC Inc 1306 N 1700 W Farmington, UT Phone: 801-296-0477 Website: highcountryhvac.com	HVAC - unitary	Contractor	04/01/2009	Completed
Allred's Incorporated 642 North 1000 West Unit □ 104 Logan, UT Phone: 435-774-1200 Website: www.allreds.net	HVAC - unitary	Distributor	05/11/2011	Completed
Electrical Wholesale Supply Co., Inc. - Corporate 1355 Fremont Ave Idaho Falls, ID Phone: 208-523-2901 Website: www.ewscopyinc.com	Controls Lighting Motors and VFDs	Distributor	09/22/2012	null
Total Energy Electrical/Full Spectrum Services 121 E. 38th, □106 Boise, ID Phone: 208-622-9977 Website: www.fullspecservices.com	Lighting	Contractor	10/11/2012	null
Wes LED Technologies, LLC. 11811 North Freeway, Suite 181 Houston, TX Phone: 281-436-7373 Website: www.wesled.com	Lighting	Distributor	07/01/2011	Completed
Electrical Wholesale Supply Co., Inc. - Driggs 83C Rocky Road Ind Lp. Driggs, ID Phone: 208-354-1228 Website: www.ewscopyinc.com	Controls Lighting Motors and VFDs	Distributor	09/22/2012	null
ESL Vision LLC P.O. Box 58565 Salt Lake City, UT Phone: 801-415-5177 Website: www.eslvision.com	Controls Lighting	Distributor Manufacturer - Rep	01/13/2013	Completed
Dykman Electrical 2323 Federal Way Boise, ID Phone: 208-336-3988 Website: dykman.com	HVAC - unitary Motors and VFDs	Distributor	08/01/2006	Completed

Energy Efficiency Alliance



Clark's Quality Roofing, Inc. 334 W. Anderson Avenue Salt Lake City, UT Phone: 801-266-3575 Website: clarkroof.com	Specialties Building envelope	Business Type Contractor	Join Date 09/19/2012	Projects Completed null
Bearings & Industrial Sales 625 Lindsay Rd Idaho Falls, ID Phone: 800-274-7775 Website: bearing-sales.com	Specialties HVAC - unitary Motors and VFDs	Business Type Distributor	Join Date 10/01/2006	Projects Completed
CraLux Lighting* 759 Roberta St. Salt Lake City, UT Phone: 801-673-4722 Website: craluxlighting.com	Specialties Lighting	Business Type Distributor	Join Date 05/12/2009	Projects Completed 240
Utah Yamas Controls Inc. 13526 S. 110 W. Draper, UT Phone: 801-990-1950 Website: www.utahyamas.com	Specialties Building envelope Controls HVAC - evaporative HVAC - unitary Lighting Motors and VFDs Other: Other Specialty	Business Type Contractor Distributor Engineering Firm Manufacturer - Rep	Join Date 01/21/2013	Projects Completed
J1 J1 J1, IL Phone: 444-444-4444 x 4444	Specialties Compressed Air	Business Type Contractor	Join Date 01/02/2013	Projects Completed
Consolidated Electrical Distributors* - Logan, UT 636 N. 600 W. Logan, UT Phone: 435-752-8905	Specialties Farm and Dairy Irrigation Lighting	Business Type Distributor	Join Date 03/26/2005	Projects Completed 27
Service Mechanical Controls, Inc. 4410 S Century Dr Murray, UT Phone: 801-904-1250	Specialties HVAC - unitary Motors and VFDs	Business Type Contractor	Join Date 06/01/2009	Projects Completed
Thurgood Mechanical Service, Inc. 4245 E. 653 N Rigby, ID Phone: 208-745-9302	Specialties Controls HVAC - unitary Motors and VFDs	Business Type Contractor Manufacturer - Rep	Join Date 06/01/2007	Projects Completed
Town & Country Electric, Inc. 1223 11th Ave. North Nampa, ID Phone: 208-467-2148 Website: town-and-country-electric.com	Specialties Lighting	Business Type Contractor	Join Date 01/01/2009	Projects Completed
Consolidated Electrical Distributors* - Idaho Falls 865 Pancheri Idaho Falls, ID Phone: 208-523-2022	Specialties Lighting	Business Type Distributor	Join Date 09/24/2012	Projects Completed 7
Coolerado Corporation 4700 W. 60th Ave., Ste. 3 Arvada, CO Phone: 303-375-0878 Website: coolerado.com	Specialties HVAC - evaporative HVAC - unitary	Business Type Distributor Manufacturer - Rep	Join Date 03/01/2007	Projects Completed
Cooper Lighting 1121 Highway 74 South Peachtree, GA Phone: 770-486-3092 Website: www.cooperlighting.com	Specialties Controls Lighting	Business Type Manufacturer - Rep	Join Date 12/13/2012	Projects Completed

Energy Efficiency Alliance



D&S Electrical 363 West Chubbuck Road Chubbuck, ID Phone: 208-731-3701	Specialties Lighting Motors and VFDs	Business Type Distributor	Join Date 12/01/2008	Projects Completed 31
Tirrell's Electric, Inc. 770 E. Sunnyside Rd. Idaho Falls, ID Phone: 208-524-2456	Specialties Lighting	Business Type Contractor	Join Date 03/01/2009	Projects Completed 1
Munro Systems, Inc. 955 3rd Avenue/P.O. Box 519 Grand Junction, CO Phone: 877-372-9005	Specialties HVAC - unitary Motors and VFDs	Business Type Distributor	Join Date 09/01/2006	Projects Completed
Verismic Software Inc. 65 Enterprise Aliso Viejo, CA Phone: 949-222-2287 Website: www.verismic.com	Specialties Office Equipment Other: Other Specialty	Business Type Contractor Distributor Manufacturer - Rep Other	Join Date 01/16/2013	Projects Completed
Evolve Guest Controls 85 Denton Avenue New Hyde Park, NY Phone: 516-448-1862 Website: eguestcontrols.com	Specialties Controls Other: Other Specialty	Business Type Contractor Manufacturer - Rep	Join Date 06/01/2012	Projects Completed
Electrical Wholesale Supply Co., Inc. - Idaho Falls 3140 McNeil Dr. Idaho Falls, ID Phone: 208-523-2800 Website: www.ewscopyinc.com	Specialties Controls Lighting Motors and VFDs	Business Type Distributor	Join Date 09/22/2012	Projects Completed 3
Valley Implement 213 West 8th North Preston, ID Phone: 208-852-0430 Website: valley-implement.com	Specialties Controls Irrigation Motors and VFDs	Business Type Contractor	Join Date 12/05/2012	Projects Completed null
Electrical Wholesale Supply Co., Inc. - Pocatello 220 West Maple Pocatello, ID Phone: 208-233-1362 Website: www.ewscopyinc.com	Specialties Controls Lighting Motors and VFDs	Business Type Distributor	Join Date 09/22/2012	Projects Completed null
All American Lighting Inc. P.O. Box 2996 Idaho Falls, ID Phone: 208-237-2164	Specialties Lighting	Business Type Distributor	Join Date 03/01/2010	Projects Completed 1
Electrical Wholesale Supply Co., Inc. - Home Lighting 650 W. Sunnyside Rd. Idaho Falls, ID Phone: 208-523-2300 Website: www.ewscopyinc.com	Specialties Controls Lighting Motors and VFDs	Business Type Distributor	Join Date 09/22/2012	Projects Completed null
Harris-Dudley Company 3039 S Specialty Cir Salt Lake City, UT Phone: 801-363-3883 Website: radiantfloor.com	Specialties HVAC - unitary	Business Type Contractor	Join Date 04/01/2009	Projects Completed
Wheeler Electric 469 West 16th St. Idaho Falls, ID Phone: 208-522-1906 Website: wheelerelectric.com	Specialties Lighting	Business Type Contractor	Join Date 01/01/2007	Projects Completed 3

Energy Efficiency Alliance



Control Equipment Company 174 W. Angelo Ave. Salt Lake City, UT Phone: 801-487-7741	Specialties HVAC - unitary Motors and VFDs	Business Type Distributor	Join Date 02/01/2006	Projects Completed
Real Green LED 4280 W. 200 N. Cedar City, UT Phone: 951-235-0382 Website: www.realgreen.net	Specialties Lighting	Business Type Distributor	Join Date 09/01/2012	Projects Completed
Gustave A. Larson Company 1395 Northgate Mile Idaho Falls, ID Phone: 208-522-3270 Website: galarson.com	Specialties HVAC - unitary Motors and VFDs	Business Type Distributor	Join Date 09/01/2008	Projects Completed
Allred's Incorporated 1410 Gibson Avenue Ogden, UT Phone: 801-621-6426 Website: www.allreds.net	Specialties HVAC - unitary	Business Type Distributor	Join Date 05/11/2011	Projects Completed
Norbryhn Equipment Company 3711 E. Newby St. Nampa, ID Phone: 208-465-5700 Website: norbryhn.com	Specialties HVAC - unitary Motors and VFDs	Business Type Distributor	Join Date 05/01/2012	Projects Completed
L & K Metco Electric P.O. Box 7964 Boise, ID Phone: 208-342-6381	Specialties Lighting	Business Type Contractor	Join Date 10/01/2011	Projects Completed 1
Kaman Industrial Technologies 525 S. Utah Circle Idaho Falls, ID Phone: 208-523-6811 Website: kaman.com	Specialties Motors and VFDs	Business Type Distributor	Join Date 09/01/2006	Projects Completed
Northern Lights Electric LLC* 3473 E. 20th N. Unit A Idaho Falls, ID Phone: 208-757-9473	Specialties Lighting	Business Type Contractor	Join Date 04/01/2009	Projects Completed 8
LEPCO (Leonard Petroleum Equipment) P.O. Box 170219 Boise, ID Phone: 208-336-1155	Specialties Lighting Motors and VFDs	Business Type Contractor	Join Date 09/24/2012	Projects Completed null
APC Sales and Service Corp. 132 Fairgrounds Road West Kingston, RI Phone: 714-513-7371 Website: www.schneider-electric.com	Specialties Lighting	Business Type Other	Join Date 03/01/2012	Projects Completed
Electric Motor Service Co. 535 Utah Circle Idaho Falls, ID Phone: 208-522-4256 Website: electricmotorif.com	Specialties Motors and VFDs	Business Type Distributor	Join Date 05/01/2006	Projects Completed
Thomas D. Robison Roofing, Inc. PO Box 716 Blackfoot, ID Phone: 208-785-4626 Website: robisonroofing.com	Specialties Building envelope Other: Other Specialty	Business Type Contractor	Join Date 06/01/2012	Projects Completed

Energy Efficiency Alliance



Company Name	Specialties	Business Type	Join Date	Projects Completed
Conan's Inc. 429 W 18th St. Idaho Falls, ID Phone: 208-522-3372	HVAC - unitary	Contractor	09/01/2006	
Larsen Electric, LLC P.O. Box 2871 Pocatello, ID Phone: 208-237-2058	Lighting	Contractor	09/22/2012	1
Honeywell International 2371 S. Presidents Drive Salt Lake City, UT Phone: 801-978-7220 Website: honeywell.com	Controls HVAC - evaporative HVAC - unitary Motors and VFDs	Contractor Distributor Manufacturer - Rep	05/01/2006	
Eco Safe Lighting 4600 NW Camas Meadows Drive, Suite 210 Camas, WA Phone: 360-567-1923 Website: http://www.est-lights.com/about-us/	Lighting	Distributor	02/11/2013	
Midgley-Huber, Inc.* 2465 Progress Drive Salt Lake City, UT Phone: 801-972-5011 Website: Migley-huber.com	HVAC - evaporative HVAC - unitary	Manufacturer - Rep	05/01/2007	
First Call Jewell Inc. 1410 Hollipark Drive Idaho Falls, ID Phone: 208-522-7777 Website: firstcalljewel.com	HVAC - unitary Motors and VFDs	Contractor	10/01/2006	
Pete's Lighting 227 S. Johnson Ave. Pocatello, ID Phone: 208-233-0220	Lighting	Distributor	09/01/2010	1
Thomas Electric Co 549 W 200 S Salt Lake City, UT Phone: 801-363-8817	Motors and VFDs	Distributor	08/01/2009	
ePlusGreen Inc. 7951 SW 6th Street, Fort Lauderdale FL 33324 Suite 208, Ft Lauderdale, FL Phone: 954-236-5037 Website: http://www.eplusgreen.com/pro/index.html	Office Equipment Other: Other Specialty	Contractor Distributor Engineering Firm Other	01/10/2013	
Precision-Paragon [P2] 23281 La Palma Ave Yorba Linda, CA Phone: 714-386-5550 Website: www.p-2.com	Lighting	Manufacturer - Rep Other: Manufacturer	03/13/2013	
DiVi Energy, LLC 68 S Main St., Ste 800 Salt Lake City, UT Phone: 801-243-1811	Lighting	Distributor Manufacturer - Rep	01/23/2013	
Energy Industries 425 W. Pueblo St. Boise, ID Phone: 208-859-6713 Website: energy-industries.com	Lighting	Other	05/30/2006	2

Energy Efficiency Alliance



Member Company	Specialties	Business Type	Join Date	Projects Completed
Royal Wholesale Electric - Logan 917 W 600 N Ste 101 Logan, UT Phone: 435-752-7692 Website: royalutah.com	HVAC - unitary Lighting	Distributor	Join Date 01/09/2008	Projects Completed 9
AC&H Supply Sandy, UT Phone: 801-676-7577	HVAC - unitary	Distributor	Join Date 05/01/2009	Projects Completed
Valley Implement 2570 N Main Logan, UT Phone: 435-787-1586 Website: valley-implement.com	Controls Farm and Dairy Irrigation Motors and VFDs	Contractor	Join Date 12/05/2012	Projects Completed null
Lewis Corporation 15136 Huneker Pocatello, ID Phone: 208-238-1202 Website: lcorp.com	HVAC - unitary	Contractor	Join Date 08/01/2008	Projects Completed
Platt Electric Supply* 919 Pancheri Street Idaho Falls, ID Phone: 208-524-6171	Lighting	Distributor	Join Date 01/01/2009	Projects Completed 6
Alloway Commercial Lighting 1420 Grove Street Boise, ID Phone: 208-344-2507 Website: www.allowaylighting.com	Lighting	Distributor	Join Date 09/26/2012	Projects Completed 1
Electrical Equipment Company 540 W. 20th St. Idaho Falls, ID Phone: 208-522-4732 Website: electricalequipment.com	Lighting Other: Other Specialty	Contractor	Join Date 01/01/2012	Projects Completed 1
D.W. Electric 4565 E. 75th N. Rigby, ID Phone: 208-681-7006	Lighting	Contractor	Join Date 05/01/2011	Projects Completed 1
Harris Aircraft, Inc.* 1405 W. 800 N. Preston, ID Phone: 208-852-2890	HVAC - unitary Lighting	Distributor Manufacturer - Rep	Join Date 04/01/2007	Projects Completed 18
Energy Management Corporation* 501 West 700 South Salt Lake City, UT Phone: 801-366-4100 Website: emcsolutions.com	HVAC - unitary Motors and VFDs	Distributor	Join Date 05/01/2004	Projects Completed
Skyview Electric Inc 2299 W Omni Dr Idaho Falls, ID Phone: 208-542-0321	Lighting Motors and VFDs	Contractor	Join Date 02/01/2009	Projects Completed



Appendix 8

2012 Idaho Irrigation Post Peak Report

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Photograph courtesy USDA NRCS

November 2012

(Proprietary and Confidential)

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Table of Contents

EXECUTIVE SUMMARY	4
SYSTEM LOAD DATA ANALYSIS.....	5
Idaho Irrigation Load	5
Crops Load Detail	8
Idaho Weather	9
Idaho Transmission System	11
IRRIGATION LOAD CONTROL PROGRAM DETAILS	12
Review of Program Results	12
Load Control Events in 2012	
System Concerns with Idaho Irrigation	13
Load Control – Voltage Issues Due to Load Switching.....	14
Idaho Switched Capacitor Project and Voltage Optimization	15
Harmonic Issues	16
CONCLUSIONS	17
RECOMMENDATIONS.....	18

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EXECUTIVE SUMMARY

Rocky Mountain Power conducts an Idaho post peak irrigation system review to understand the impacts of Idaho irrigation load, and in particular the impact of the Idaho Irrigation Load Control Program. This annual report communicates the findings, conclusions, and recommendations resulting from the review.

First, the 2012 report analyzes system load data and irrigation load patterns during the 2012 irrigation season (June 1 through September 15). It discusses total Rocky Mountain Power Idaho load versus Idaho irrigation load, and irrigation load control program participants' load versus non-participants' load. In addition, it discusses how crop rotations and weather affect irrigation, and summarizes the transmission system load in heavy use irrigation areas.

Second, the report analyzes the demand side management Irrigation Load Control Program and the effects the program has on the transmission and distribution system. It discusses the details of the twelve dispatch events for 2012 and some of the system concerns with the program.

Third, harmonic issues related to irrigation systems are discussed; however, harmonic issues are not caused by the Irrigation Load Control Program.

Finally, the report identifies conclusions and makes recommendations.

Some of the key informational points from the report are:

- The Rocky Mountain Power Idaho irrigation typical peak demand usually occurs in late June - early July growing season when irrigators are watering grain and potatoes at the same time. The irrigation load in 2012 followed an atypical pattern of usage. Mild winter weather and earlier spring like temperatures allowed farmers to plant earlier. A warmer and drier spring resulted in an earlier start to irrigation.
- Irrigation load in Idaho represents 38% of the State total peak load.
- Idaho has 4,808 irrigation customers with 44% of these customers participating in the Irrigation Load Control Program.
- The Irrigation Load Control Program was dispatched twelve times in 2012. The average curtailment was 139 megawatts. The maximum dispatch event resulted in an estimated curtailed load of 185 megawatts¹.
- Based on work completed in 2011 and early 2012, the number of ANSI range A voltage violations and the severity of the violations were reduced in 2012.

¹ See Table 1, Maximum curtailment event occurred on June 25, 2012

SYSTEM LOAD DATA ANALYSIS

Idaho Irrigation Load

Irrigated agricultural land in southeastern Idaho served by Rocky Mountain Power is primarily in the Snake River Plain. This area is an inverted triangle shape from Shelley on the south to Dubois on the northwest and Ashton on the northeast; Arco on the west to Ririe (northeast of Idaho Falls) on the east.

Other areas in Idaho with irrigated agricultural land served by Rocky Mountain Power are: Preston, Malad, Marsh Valley, Montpelier, and in the Gem Valley around Grace, Bancroft and Chesterfield. These other areas have much less irrigation load than the primary area in the Snake River Plain. See Figure 1 for a view of the irrigation loads. The green dots represent irrigation customers.

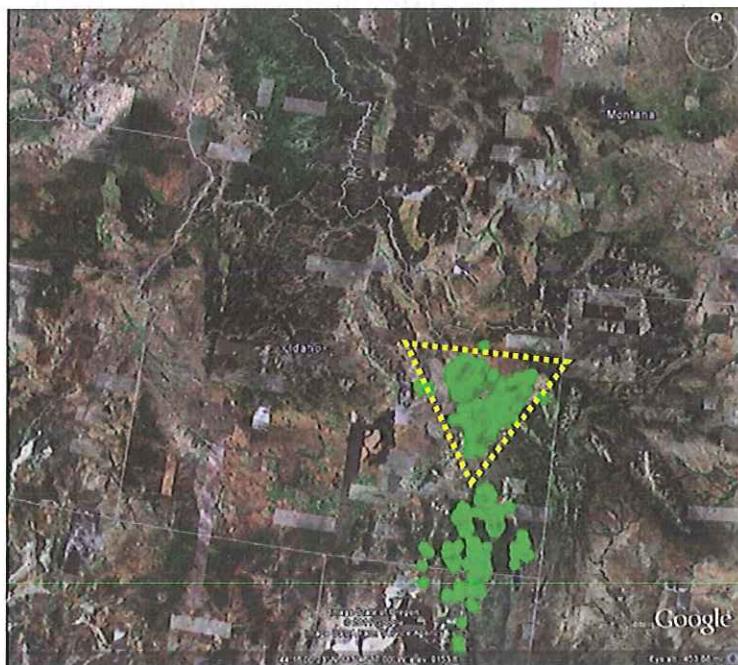


Figure 1 Geographic Area

Irrigation water comes from either surface water—rivers, canals, ditches—or groundwater from wells. Irrigation customers connected to the Rocky Mountain Power system use pumps driven by electric motors to move water from the source, and pressurize it into an irrigation system. Electric pump motor sizes reach up to 1000 horsepower.

Larger pump motors are used for drawing groundwater out of the deep wells in the area. Irrigation systems can be a center pivot system² (Figure 2), a wheel line³ (Figure 3), or hand lines⁴ (Figure 4). A center pivot system will run continuously for the time it takes for a complete cycle. Wheel lines and hand lines run 8 to 24 hours and then turned off to be moved manually.



Figure 2 Typical Center Pivot



Figure 3 Typical Wheel Line – Photograph courtesy USDA NRCS



Figure 4 Typical Hand Line –
Photograph courtesy USDA ERS

On July 2, 2012 Rocky Mountain Power's Idaho load⁵ peaked at 808 megawatts. It is estimated 69%⁶ of Schedule 72A control devices were operating on July 2, 2012. Using customer account data, there was 439 megawatts of Idaho irrigation undiversified demand in July. Applying the 69% diversity factor against the 439 megawatts of demand, yields 303 megawatts of total Idaho irrigation load and 505 megawatts of non-irrigation load on July 2, 2012. (Figure 5)

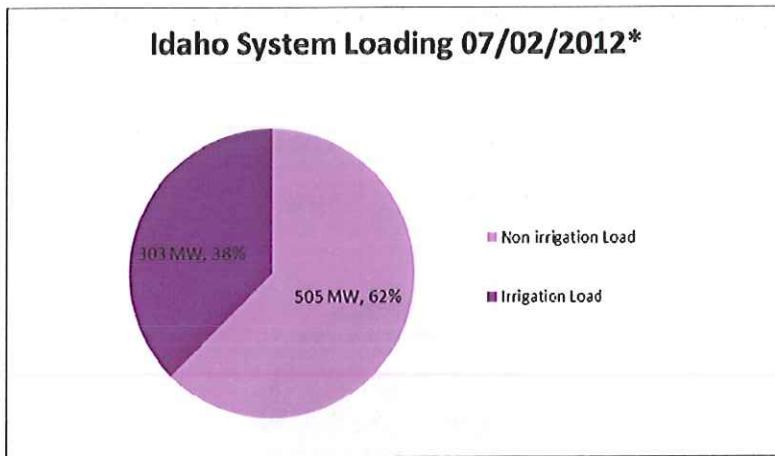


Figure 5 Idaho System Loading

² A pipe with sprinklers carried by wheeled towers in an arc around a center point.

³ A pipe with sprinklers attached on large wheels that is moved in a line across a field.

⁴ Pipes with sprinklers attached that are laid in a line on the ground.

⁵ Idaho load was 13% of the Rocky Mountain Power total system load

⁶ For purposes of this report it is assumed the total irrigation population in Idaho operated at a 69% diversity factor on the peak day

Rocky Mountain Power had 4,808 irrigation customers connected in the State of Idaho in 2012. The undiversified demand for these 4,808 irrigation customers was 439 megawatts in July 2012. Of these 4,808 customers there are 2,117, or 44%, that participate in the company's Irrigation Load Control Program (Figure 6).



Figure 6 Idaho Irrigation Customers

In July, the total undiversified demand of customers participating in the load control program was 261 megawatts. Applying the 69% diversity factor to these 261 megawatts yields 180 megawatts of diversified load from customers participating in the load control program in July. On the day of the peak, 180 megawatts of load was utilized by load control program participants, and 123 megawatts was utilized by non-participating irrigation customers. This totaled 303 megawatts of irrigation load in Idaho. See Figure 7.

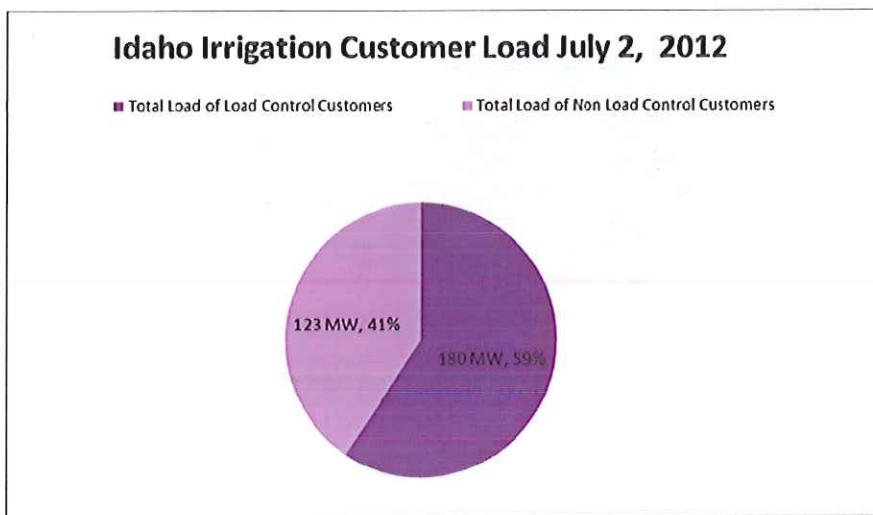


Figure 7 Idaho Irrigation Customer Load July 2, 2012

Idaho Crops Load Detail

The primary crops grown in the Rocky Mountain Power service territory in southeastern Idaho are alfalfa, barley, potatoes, and wheat. Wheat, barley, and other grains are watered typically in late May, June and July. Watering stops in late July or early August to allow the grains to dry for harvest. Potatoes are watered through the whole summer. Alfalfa is also watered through the entire summer except during intervals where it is cut, dried, and harvested. These dates vary each year, but generally occur in mid to late June and late July to early August.

Figure 8 represents the periods of highest load potential using ten-year historical data from the watering periods of the most common crops in the program. The 2010, 2011, and 2012 load data for the Big Grassy substation which primarily serves irrigation load is included to denote the variability for any given year.

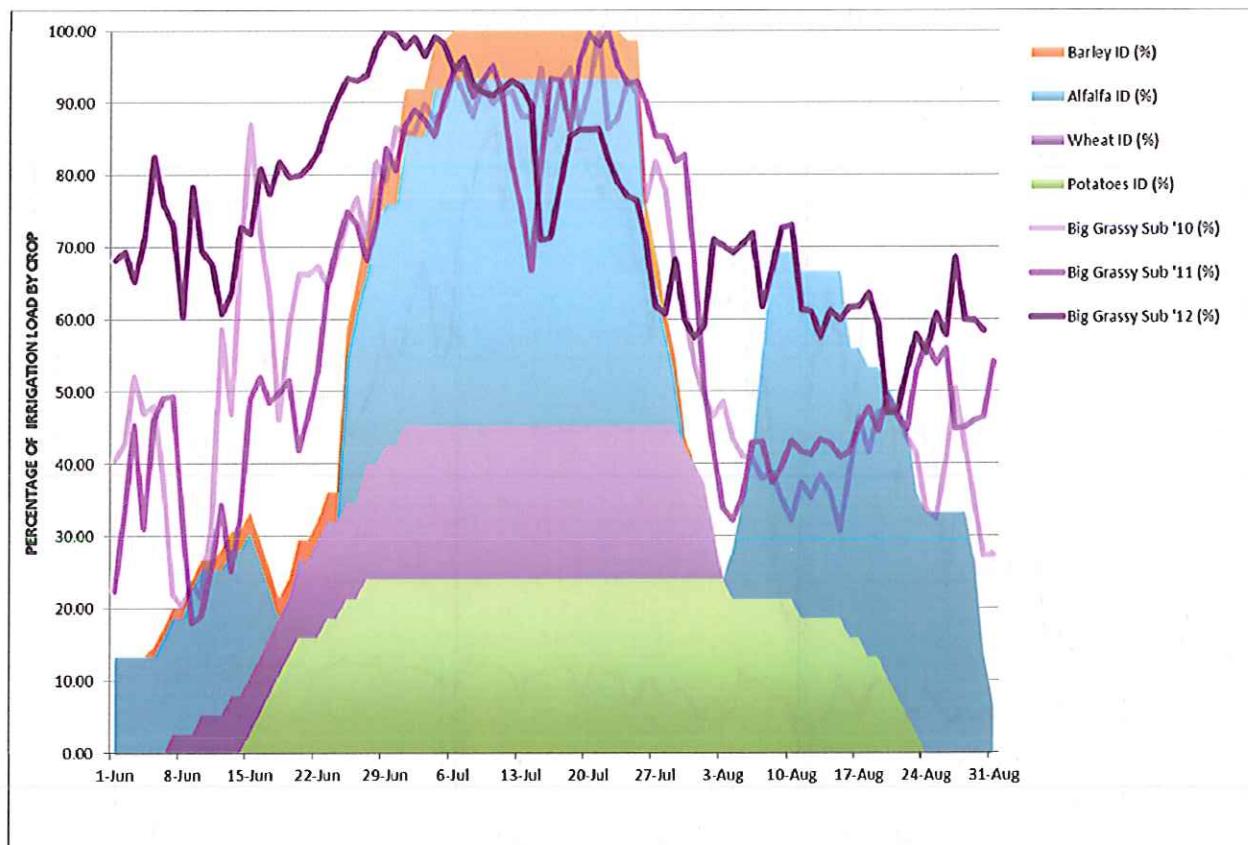


Figure 8 Idaho Crop Detail

Most of the variability portrayed in the graph is due to weather and the maturation period of the crops. Alfalfa, accounting for 51% of the crop within the Idaho Irrigation Load Control program, is one of the crops that contribute to this variability since watering discontinues two to three times for harvesting.

Although average crop and weather patterns provide a good indicator of what may occur, each individual year may fluctuate drastically.

Idaho Weather

Irrigation of Southeastern Idaho crops is necessary because the weather during the summer growing season is typically warm and dry. The amount of spring precipitation in May and June, affects when irrigation begins. When there is less precipitation in May and June, irrigation begins earlier.

June, July and August air temperature and precipitation affect the total summer irrigation electrical load. Higher air temperatures and lower precipitation lead to higher summer irrigation load, since more irrigation water will be needed on the crop. Data on precipitation, temperature, and irrigation power⁷ demand for April through August of 2012 are shown in Figure 9.

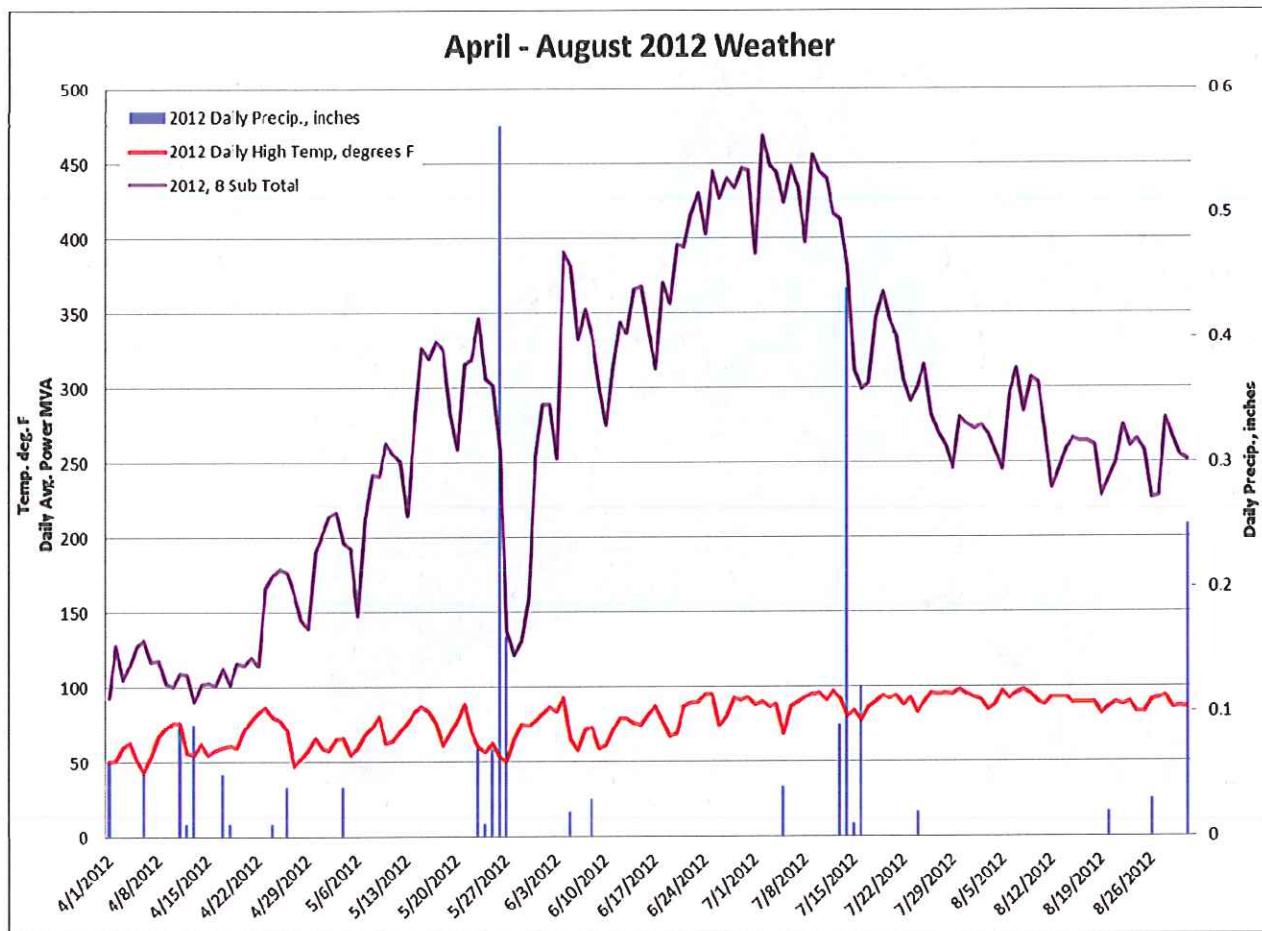


Figure 9 April - August 2012: Weather and Power Use

⁷ See Idaho Transmission System, page 11, for a description of the eight substations referenced in Figure 9

According to Idaho Falls climate reports⁸, both the summer and spring were warmer and drier than normal. Average temperatures were warmer in 2012 by 1 degree in June, 3.5 degrees in July and 3 degrees in August.

There were fifteen days in August with the high temperature above 90 degrees and 29 days were sunny and clear.

Average precipitation for June and July, and August is 2.22 inches. The actual precipitation total for June, July, and August 2012 was 1.07 inches, 48% of normal. June 2012 precipitation accounted for most of this departure from normal as precipitation that month was one inch less than normal.

A comparison between 2011 and 2012 summer weather is shown in Figure 10. The scarcity of June and August precipitation in 2012 can be seen on the graph. Also, consecutive days of temperatures higher in 2012 than in 2011 can be seen in the first and third weeks of June 2012, the second week of July, and in late July and early August. Many of the July and early August 2012 daily high temperatures were higher than any of the summer daily high temperatures reached in 2011.

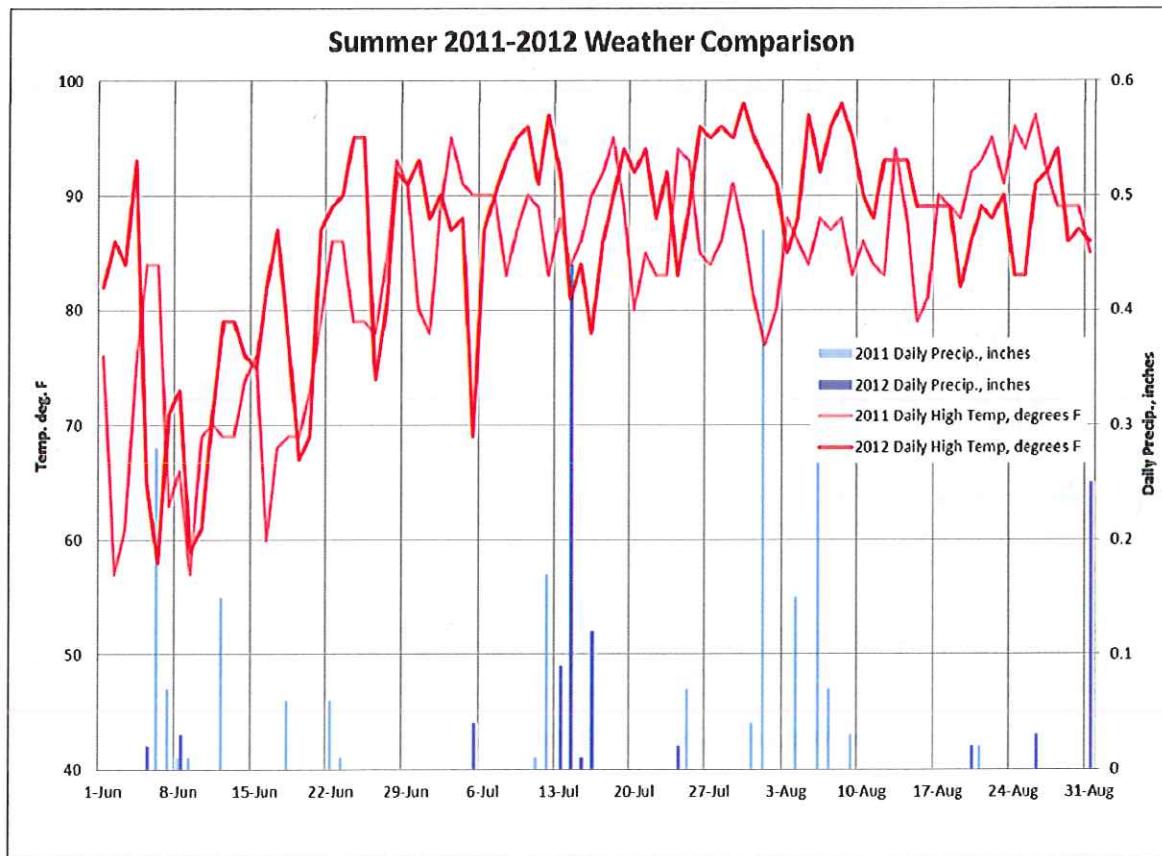


Figure 10 Summer 2011 and 2012: Weather Comparison

⁸ Weather data is shown for Idaho Falls by the Pocatello area branch of the National Weather Service for the summer of 2012

Idaho Transmission System

Most of Rocky Mountain Power's southeastern Idaho irrigation customers are served by circuits that originate at one of the eight major transmission substations in the area. These transmission substations and the lower voltage distribution substations and circuits function as a system to supply power to about 91% of all irrigation loads in Idaho. The transmission substations, all in the Snake River Plain in southeastern Idaho, are Amps, Scoville, Big Grassy, Bonneville, Cinder Butte, Goshen, Jefferson and Rigby. In comparison to 2011 loading, the eight substation 2012 composite loading started earlier in the summer and set a slightly higher peak than 2011. See Figure 11.

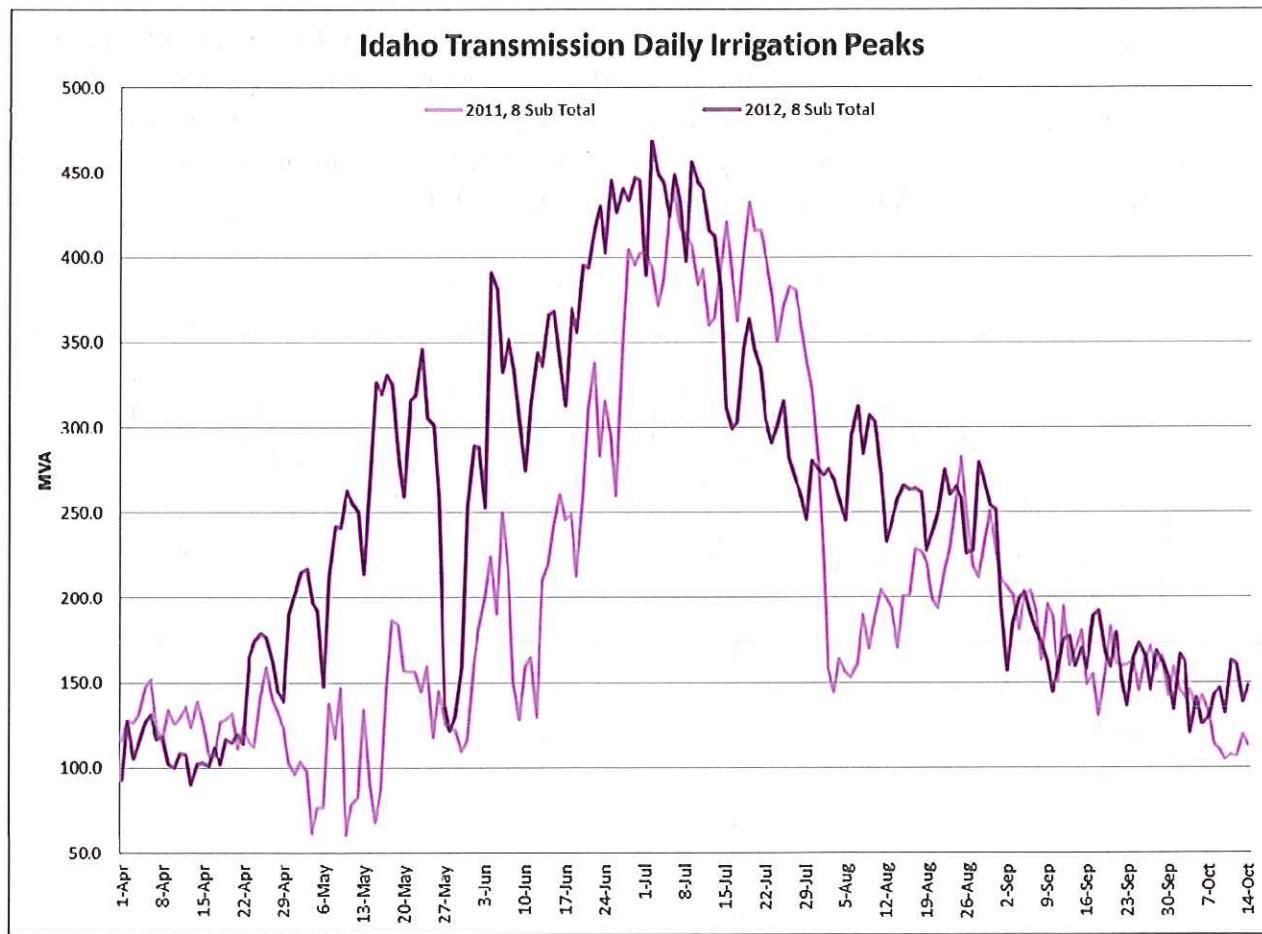


Figure 11 Idaho Transmission Daily Irrigation Peaks

IRRIGATION LOAD CONTROL PROGRAM DETAILS

Irrigation Load Control (Schedules 72 & 72A) is offered to irrigation customers receiving electric service on Schedule 10, Irrigation and Soil Drainage Pumping Power Service. Participants allow the curtailment of their electricity usage as prescribed in Schedules 72 and 72A in exchange for a participation credit. For most participants their irrigation equipment is set up with a dispatchable two-way control system giving the Company control over their loads. Participants are provided a day-ahead notification in advance of control events and have the choice to opt-out of a limited number of dispatch events per season. The curtailment events in this report were not in response to any limitations on Idaho's substations or transmission systems since they have adequate capacity to serve all connected irrigation customers in Idaho. Rather, the curtailment events are due to other factors affecting the broader system.

Load control events in 2012

The 2012 Irrigation Load Control Program was available for 52 hours from June 1st to August 31st. The program is estimated to have curtailed 180 megawatts of load on July 2, 2012, between 3 p.m. and 7 p.m. Mountain Standard Time, the peak day. See Figure 12.

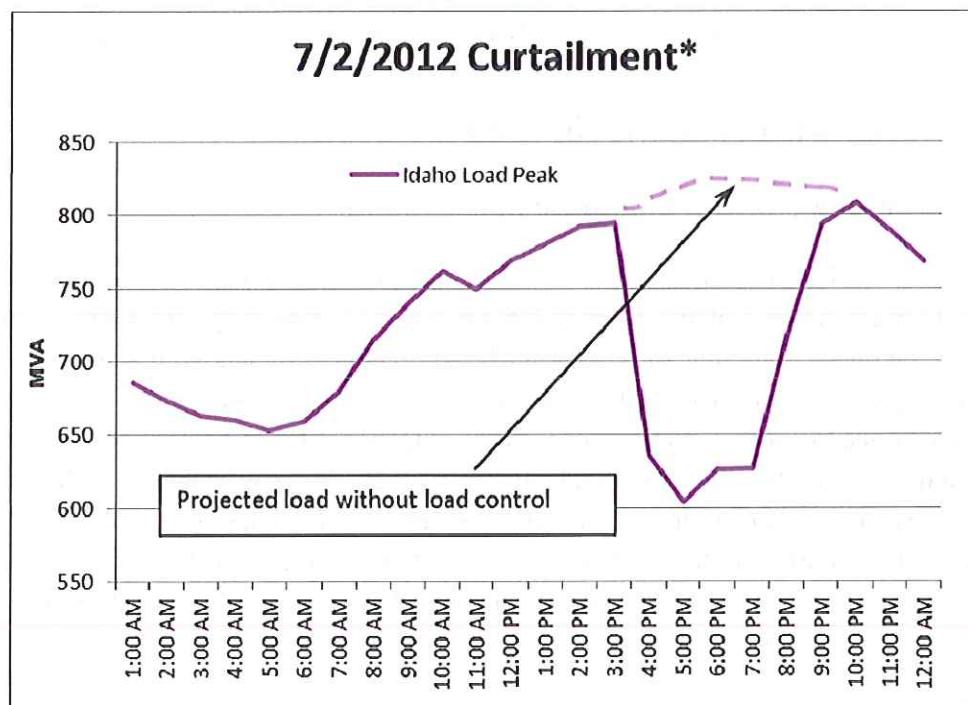


Figure 12 July 2nd load curtailment profile

*Data from Hourly Data of System Loading for RMP summer 2012.

In 2012 Rocky Mountain Power dispatched twelve irrigation load control events due to system need and one test event on June 1, 2012, for 1 hour. Idaho load control events for 2012 achieved 28% to 76% of the average participant connected load⁹.

Date	opt-outs (MW)	Reductions (MW)	Dispatch Factors
6/21/2012	6.4	156	High temp, Gen unit uncertainty, transmission
6/22/2012	4.9	162	High temp, Gen units uncertainty, transmission
6/25/2012	10	185	High temp, Gen units uncertainty
6/28/2012	12	172	High temp, Gen units uncertainty
7/2/2012	14.2	180	High temp, Gen units uncertainty, Prices
7/9/2012	13.4	171	High temp, Gen units uncertainty, Prices
7/10/2012	16.1	157	High temp, Gen units uncertainty, Prices
7/11/2012	16.8	144	High temp, Gen units uncertainty
7/20/2012	6.9	125	High temp, Gen units uncertainty, Prices
7/26/2012	9.6	75	High temp, Gen units uncertainty
7/27/2012	10.5	77	High temp, Gen units uncertainty
8/8/2012	5.8	69	High temp, Gen unit uncertainty, Very high prices

Table 1, Load Control Event Dates and Data

System Concerns with Idaho Irrigation

Load Control – Voltage Issues due to Load Switching

Since change in load on the power system affects the system voltage, an irrigation load control event that reduces load affects system voltage. Load reduction causes the power system's voltage to increase, sometimes above the prescribed range of ANSI C84.1. Although equipment with automatic controls is used to adjust voltage, it does not react instantly to changes in voltage on the system, and may take up to several minutes to adjust the voltage to the proper range in response to severe changes. To understand and monitor voltage issues related to irrigation load control, metering was installed inside seven different substations and on four different customer accounts on irrigation circuits. Meter readings revealed that while the addition of the automated capacitor bank controls greatly improved the issues observed in previous years, some voltage incursions occurred in 2012. See Figure 13 for an example of one of the voltage incursions that was observed with the metering.

⁹ The percentages are derived from total controlled load divided by the total undiversified demand of customers participating in the load control program of 244 megawatts for June, July, and August

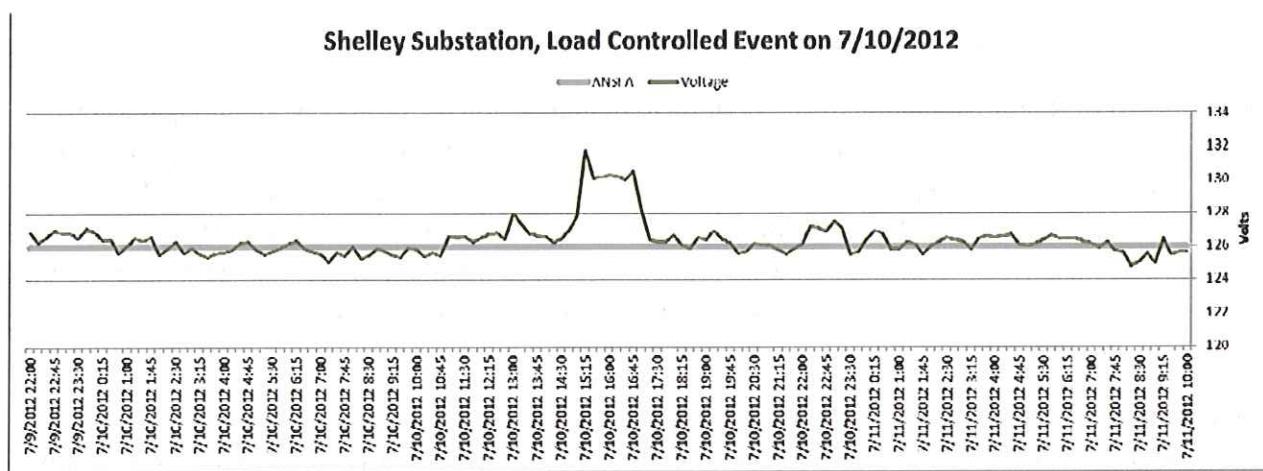


Figure 13, Typical load controlled event on Shelley Sub

The following factors contribute to the number of ANSI range A voltage violations:

- Large blocks of loads are controlled simultaneously. Voltage control equipment must have ample time to react to the changes in load and adjust the voltage to keep it within ANSI C84.1 Range A parameters. Larger magnitude changes take longer to correct.
- Irrigation loads are often geographically concentrated in particular areas of the network. Curtailing large blocks of participating irrigation load concentrated on a single circuit or a single substation at the same time increases the magnitude of the voltage change.
- Some circuits serve predominately irrigation loads and have a high percentage of Irrigation Load Control Program participants. During an irrigation load control dispatch on these circuits the high voltage condition is magnified. The voltage exceeds the ANSI C84.1 Range A parameters and affects other customers on the circuit.

These contributing factors are not easily resolved since there are factors, like geography, that cannot be changed, and competing objectives involved. Demand Side Management's objective is to reduce load in large blocks simultaneously in order to minimize system peaks and to maximize the energy available to market. Operation's objective is to maintain system voltage in the proper range without incursions, which is more difficult to do when load is reduced in large blocks. By controlling smaller chunks of load, the magnitudes of the voltage changes will be minimized. While controlling the irrigation loads in smaller blocks would help decrease voltage incursions, it would also decrease the size of the blocks of energy available to market, negatively impacting the program's cost-effectiveness. A compromise between the two objectives is needed.

To mitigate some of the voltage issues identified in past years, Rocky Mountain Power installed a 3-step capacitor bank on the 69 kilovolt bus at Big Grassy substation before the 2011 irrigation season. The stepped capacitor bank is working well. See Figure 14.

Idaho Switched Capacitor Project and Voltage Optimization

In 2011, as part of Rocky Mountain Power's efforts to minimize voltage incursions and not put a cap on load control enrollment, Rocky Mountain Power agreed to install automatically switched capacitor bank controls. To address the system and cost-effectiveness issues, a settlement was reached in 2011 with the Idaho Commission staff, the Idaho Irrigation Pumper Association, and Rocky Mountain Power. The settlement stated that Rocky Mountain Power would invest a minimum of \$1.3 million dollars before the 2012 irrigation season to reduce the constraints on the system during high participation in the Irrigation Load Control Program.

To comply with the settlement agreement Rocky Mountain Power engineered a solution to the problem by replacing manual capacitor banks with automatic sensing capacitors that would switch automatically to maintain acceptable voltage levels. Forty Six automatic switched capacitors have been installed and 59 manual capacitors were removed. This work was completed on 14 circuits before the start of the 2012 irrigation season.

Voltage meters were installed on the 7 substations supplying the 14 circuits. Four additional meters were placed on the distribution circuits to monitor voltages to insure. These meters allow for optimization of the new capacitor controls and ensure they are working properly. Figure 14 illustrates the voltage swings on the 69 kilovolt bus which were less than previous years.

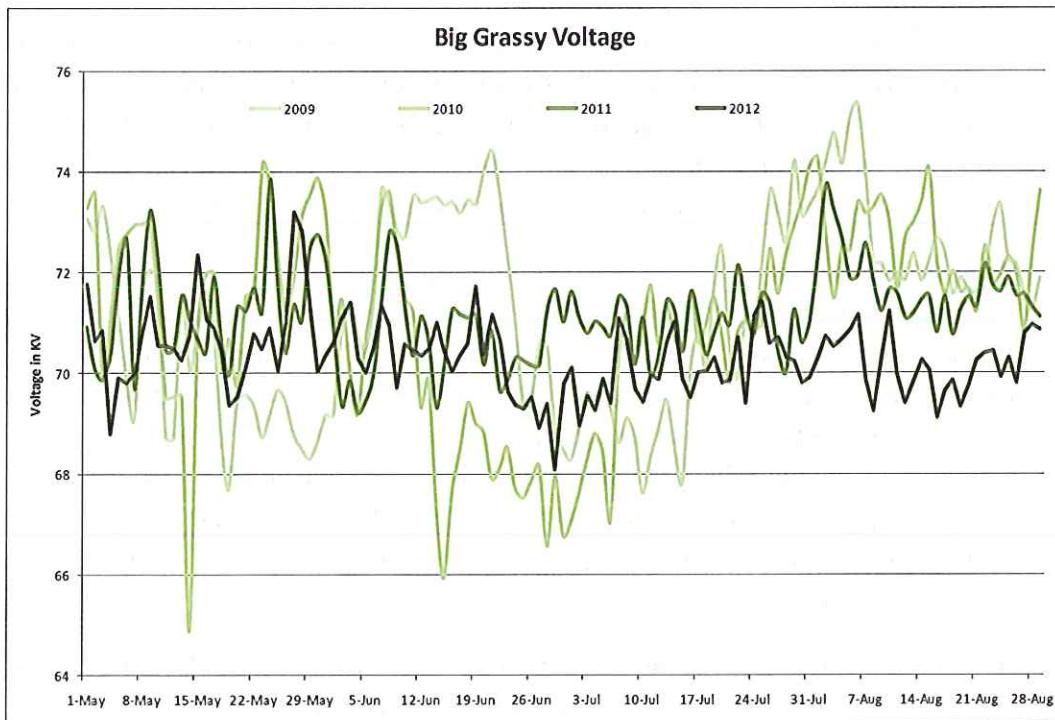


Figure 14, Big Grassy Voltage

Harmonic Issues

Rocky Mountain Power saw fewer harmonic issues in 2012, after a substantial increase in harmonic issues during the 2011 irrigation season. It is important to mention that harmonic pollution is unrelated to the Idaho's Irrigation Load Control Program. The largest contributors to the harmonic pollution on Rocky Mountain Power's irrigation feeders are unfiltered variable frequency drives used on large irrigation pumps. The company's mitigation effort to significantly reduce harmonic pollution appears to be working; however, harmonic issues in the area continue to be of a concern to Rocky Mountain Power. In comparison to 2011, 2012 saw fewer incidences of center pivot swing arms steering away from the desired path of travel. On one circuit, several variable frequency drive pump loads that were violating harmonic limit levels added filtering equipment to their electrical panels. This has resulted in a sharp drop in complaints related to the malfunctioning of guidance system of the center pivot swing arms.

Harmonic pollution caused by unfiltered variable frequency drive pump loads leads to the irrigation center pivot swing arms steering away from their pre-determined paths of travel. An electrically charged trace wire is buried in the ground that provides the sensors in the center-pivot swing arms a path to follow. The signal on the trace wires is similar to the 13th, 17th, and 19th harmonics currents produced by unfiltered variable frequency pump motor drives. The antenna array used by the pivot system can be influenced by the elevated harmonic levels. This can cause the swing arm to steer away from the desired path. Figure 15 shows a typical antenna array system that is used to follow the buried trace wires.

Only four pivots left their intended path in 2012. Three pivots left their intended path in 2009, one pivot left its intended path in 2010 and eight pivots left their intended paths in 2011. Five of the troubled pivots in 2011 left their intended path multiple times.

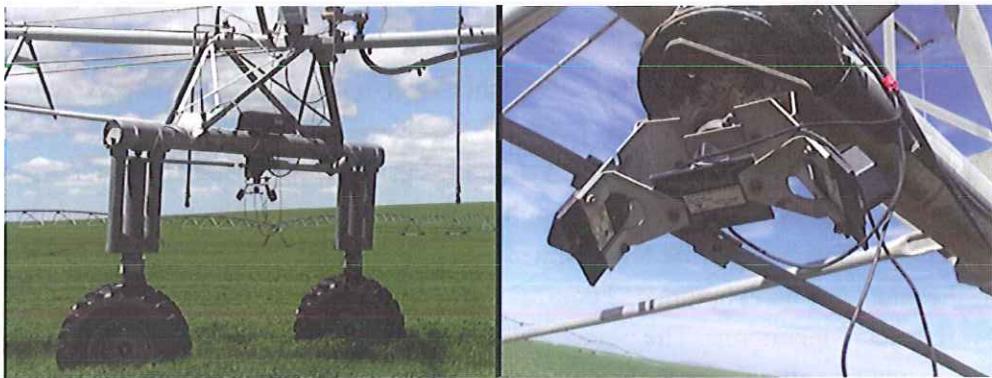


Figure 15, Typical Center Pivot Antenna Array

Efforts to mitigate the issues from harmonic pollution included several strategies. First, Rocky Mountain Power provided better feedback and education to irrigators and electrical contractors regarding the importance and application of filtering for variable frequency drives to insure IEEE 519 compliance. In prior years some of Rocky Mountain Power's customers had been unwilling to add harmonic filtering to

their variable frequency drives. This is now corrected and cooperation with irrigators was good during 2012.

Second, Rocky Mountain Power reviewed susceptibility issues with center-pivot system designers and manufacturers. According to the center-pivot manufacturers, the designs have successfully worked for the last 30 years with very few problems and they were thus unwilling to change their swing arm tracking design. Further, the incompatibility of harmonic guidance systems and harmonics from variable frequency drives has not been well understood since variable frequency drives were not widely used in irrigation systems until recent years. In the future GPS tracking swing arms are expected to replace current technology which will help alleviate the existing guidance problem.

Last, Rocky Mountain Power must continually monitor the status of distribution line capacitor banks. Capacitors act as higher frequency sinks for higher order harmonics. Thus, if a capacitor bank is not working correctly, there is a high chance that the harmonic pollution levels on the system could affect tracking of the center-pivot swing arm.

Rocky Mountain Power will continue to monitor harmonic issues and address customer complaints in a prompt and efficient manner. The company expects its mitigation efforts along with effective customer participation to reduce harmonic pollution. This is needed to provide reliable electric service and improved customer satisfaction.

CONCLUSIONS

The report analysis leads to these conclusions:

- Idaho's overall peak load was 808 megawatts on July 2, 2012 and the irrigation peak at the same time was 303 megawatts.
- The Idaho irrigation load represents a significant percentage of Idaho's peak load, 38%.
- The Irrigation Load Control Program was dispatched twelve times in 2012. The average estimated curtailment was 139 MW
- The distribution system improvements that were added prior to the 2012 irrigation season minimized the voltage swings on the 69 kilovolt bus at Big Grassy substation.
- Voltage incursions occurred during load control events due to the Idaho Load Control Program. However, the capacitor bank automated control installation project minimized the number and frequency of voltage incursions. The number of meters available to collect voltage data was insufficient to analyze all circuits in the system.
- Harmonic pollution on Rocky Mountain Power's irrigation distribution circuits, was less frequently a problem in 2012, but continues to be an issue and has caused irrigation pivots to walk off their intended paths and, in some instances, contact distribution lines.

RECOMMENDATIONS

- Future distribution circuit and voltage monitoring will need to continue to make sure the system is operating properly.
- Meter Engineering needs to develop an effective voltage monitoring set up including, site specifications, meter type and appropriate options, and automated data retrieval system, and establish a dedicated team familiar with project goals and expected outcomes.
- The company needs to continue its efforts to education irrigators about variable frequency drives, harmonic pollution mitigation and customer's responsibility for their own systems.

